	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING									AMENDE	FOR D REPORT		
APPLICATION FOR PERMIT TO DRILL								1. WELL NAME and NU		Altomon			
2. TYPE O	F WORK								10-22-22 South Altamont 3. FIELD OR WILDCAT				
4 71/05 0	- W	DRILL NEW WE	LL 📵 REEN	ITER P&	A WELL DEEPEN	NWELL 🦲)		5 11117 001111111	BLUEBE			
4. TYPE O			Oil Well	Coalbe	ed Methane Well: NO				5. UNIT or COMMUNIT		GREEME	NT NAMI	E
6. NAME (OF OPERATOR	₹	BILI	BARRE	TT CORP				7. OPERATOR PHONE	303 312-	8164		
8. ADDRE	SS OF OPERA		099 18th Street	Ste 230	0, Denver, CO, 80202				9. OPERATOR E-MAIL BHilge	ers@billbar	rettcorp.co	om	
	AL LEASE NU _, INDIAN, OR				11. MINERAL OWNERS	SHIP DIAN	STATE _) FEE 📵	12. SURFACE OWNERS	SHIP DIAN (STATE () FE	E (III)
13. NAME	OF SURFACE	OWNER (if box		ld & Chr	isty Leavitt				14. SURFACE OWNER	PHONE (i 435-401-		'fee')	
15. ADDR	ESS OF SURF	ACE OWNER (if b	ox 12 = 'fee')		Roosevelt, UT 84066				16. SURFACE OWNER			'fee')	
17. INDIAI	N ALLOTTEE (OR TRIBE NAME	turar reduce 5 Be	JX 3032,	18. INTEND TO COMM		PRODUCTION I	FROM	19. SLANT				
(if box 12	! = 'INDIAN')				MULTIPLE FORMATIO YES (Submit C		ling Applicatior	n) NO 📵	VERTICAL (DIR	RECTIONAL) но	RIZONTA	AL 🔵
20. LOC	ATION OF WEL	.L		FC	OTAGES	QT	R-QTR	SECTION	TOWNSHIP	RAN	IGE	МЕІ	RIDIAN
LOCATIO	N AT SURFAC	E		2120 FS	SL 2000 FEL	N	WSE	22	2.0 S	2.0	W	V U	
Top of U	ppermost Pro	ducing Zone		2120 FS	SL 2000 FEL	N	WSE	22	2.0 S	2.0	W		U
At Total	Depth			2120 FS	SL 2000 FEL	N	WSE	22	2.0 S 2.0 V		W	W U	
21. COUN	ITY	DUCHESNE			22. DISTANCE TO NEA	AREST LE		et)	23. NUMBER OF ACRE	S IN DRILI 640			
					25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1338			26. PROPOSED DEPTH MD:		VD: 1304	5		
27. ELEV	ATION - GROU	ND LEVEL 5452			28. BOND NUMBER LPM4138148				29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180				E
		3432			Hole, Casing			mation					
String	Hole Size	Casing Size	Length	Weig	-			Cement		Sacks	Yield	Weight	
COND	26	20	0 - 100	65.0			8.8		Unknown		0	0.0	0.0
SURF	17.5	13.375	0 - 2300	68.0	J-55 ST&C	_	8.8		rton Light , Type Unknown n Premium , Type Unknown		530	1.39	11.0
I1	12.25	9.625	0 - 5500	40.0	N-80 LT&C		9.8	Tramburton	Unknown	KIIOWII	480	2.31	11.0
									Unknown		340	1.42	13.5
PROD	8.75	5.5	0 - 13045	17.0	HCP-110 LT&	.C	13.0		Unknown		930	1.43	13.5
									Unknown		1080	1.45	14.3
					A	АТТАСНІ	MENTS						
	VE	RIFY THE FOLI	OWING ARE	ATTAC	CHED IN ACCORDAN	NCE WIT	TH THE UTAH	OIL AND GAS	CONSERVATION G	ENERAL	RULES		
w w	ELL PLAT OR	MAP PREPARED E	BY LICENSED SU	JRVEYO	R OR ENGINEER		✓ COMPI	LETE DRILLING P	LAN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					D)	TOPOG	RAPHICAL MAP						
NAME Venessa Langmacher TITLE Senior Permit Analyst					st		PHONE 303	312-8172					
SIGNATURE DATE 11/08/2011							EMAIL vlang	macher@billbarrettcorp	.com				
	ber assigne 01351053			APP	ROVAL			Bol	Qyill				
						Permi	t Manager						

BILL BARRETT CORPORATION DRILLING PLAN

#10-22-22 South Altamont

NW SE, 2120' FSL and 2000' FEL Section 22, T2S-R2W USB&M Duchesne County, UT

1-2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and **Gas and Other Minerals**

<u>Formation</u>	Depth –MD/TVD
Green River*	5,345'
Mahogany	7,040'
Lower Green River	8,440'
Douglas Creek	8,925'
Black Shale Facies	9,605'
Castle Peak	9,775'
Wasatch*	10,545'
TD	13,045'

^{*}PROSPECTIVE PAY

The Green River and Wasatch are primary objectives for oil/gas.

3. **BOP and Pressure Containment Data**

Depth Intervals	BOP Equipment				
0-2,300'	No pressure control required (may pre-set 13-3/8")				
2,300' - 5,500'	13-5/8" 5000# or 3000# Annular Diverter plumbed through the rigs choke				
	manifold				
5,500' – TD	13-5/8" or 11" 10000# Double Ram Type BOP (Pipe/Blind)				
	13-5/8" or 11" 10000# Single Pipe Ram Type BOP				
	13-5/8" or 11" 5000# Annular BOP				
- Drilling spool to accommodate choke and kill lines;					
- Ancillary equipment and choke manifold rated at 10,000 psi. All BOP and BOPE tests will be in					
accordance with the requirements of onshore Order No. 2;					
- The BLM and the	State of Utah Division of Oil, Gas and Mining will be notified 24 hours in				
advance of all BC	DP praceura tacto				

advance of all BOP pressure tests.

4. **Casing Program**

<u>Hole</u>	SETTING	5 DEPTH	Casing	Casing	Casing		
Size	(FROM)	<u>(TO)</u>	<u>Size</u>	Weight	<u>Grade</u>	Thread	Condition
26"	Surface	100'	20"	94#			
17-1/2"	surface	2,300'	13-3/8"	68#	J or K 55	ST&C	New
12-1/4"	surface	5,500'	9-5/8"	40#	N80	LT&C	New
8-3/4"	surface	13,045'	5-1/2"	17#	HCP110	LTC	New

Note: May pre-set 13-3/8" surface casing with spudder rig.

⁻ BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.

Bill Barrett Corporation Drilling Program #10-22-22 South Altamont Duchesne County, Utah

5. <u>Cementing Program</u>

Casing	<u>Cement</u>
20" Conductor Casing	Grout
	Lead: 800 sx Halliburton Light w/ additives and LCM,
17-1/2" hole for 13-3/8" Surface	11.0 ppg, 3.16 ft3/sx, 1800' fill, 100% excess
Casing	Tail: 530 sx Halliburton Premium w/ additives and LCM,
(may pre-set with spudder rig)	14.8 ppg, 1.39 ft3/sx, 500' fill, 100% excess
	Cement to surface, top out as necessary.
	Lead: 480 sx Tuned Light cement w/ additives mixed at
12-1/4" hole for 9-5/8"	11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). 2400' fill, 50% excess
intermediate casing	Tail: 340 sx Halliburton Econocem w/ additives mixed at
	13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$). 1000' fill, 50% excess.
	Planned TOC @ 2100'.
	Lead: 930 sx ECONOCEM w/ additves, 13.5 ppg, 1.43
8-3/4" hole for 5-1/2" production	ft3/sx, 3500' fill, 50% excess
casing	Tail: 1080 sx EXPANDACEM w/ additves, 14.30 ppg,
	1.45 ft3/sx, 4100' fill, 50% excess
	Planned TOC @ 5,300'

6. <u>Mud Program</u>

<u>Interval</u>	Weight	Viscosity	Fluid Loss (API filtrate)	<u>Remarks</u>
0'-2,300'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,300'- 5,500'	9.2 – 9.8	26 – 36	NC	Freshwater Mud Fluid System
5,500' – TD	9.8 – 13.0	42-58	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI, Sonic Scanner, GEM, HFDT to be run at geologist's discretion.

Bill Barrett Corporation Drilling Program #10-22-22 South Altamont Duchesne County, Utah

8. <u>Anticipated Abnormal Pressures or Temperatures</u>

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 8818 psi* and maximum anticipated surface pressure equals approximately 5948 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TVD = A (bottom hole pressure)

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

11. <u>Drilling Schedule</u>

Location Construction: December 2011
Spud: December 2011
Duration: 18 days drilling time
45 days completion time

RECEIVED: November 08, 2011

^{**}Maximum surface pressure = A - (0.22 x TVD)

PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

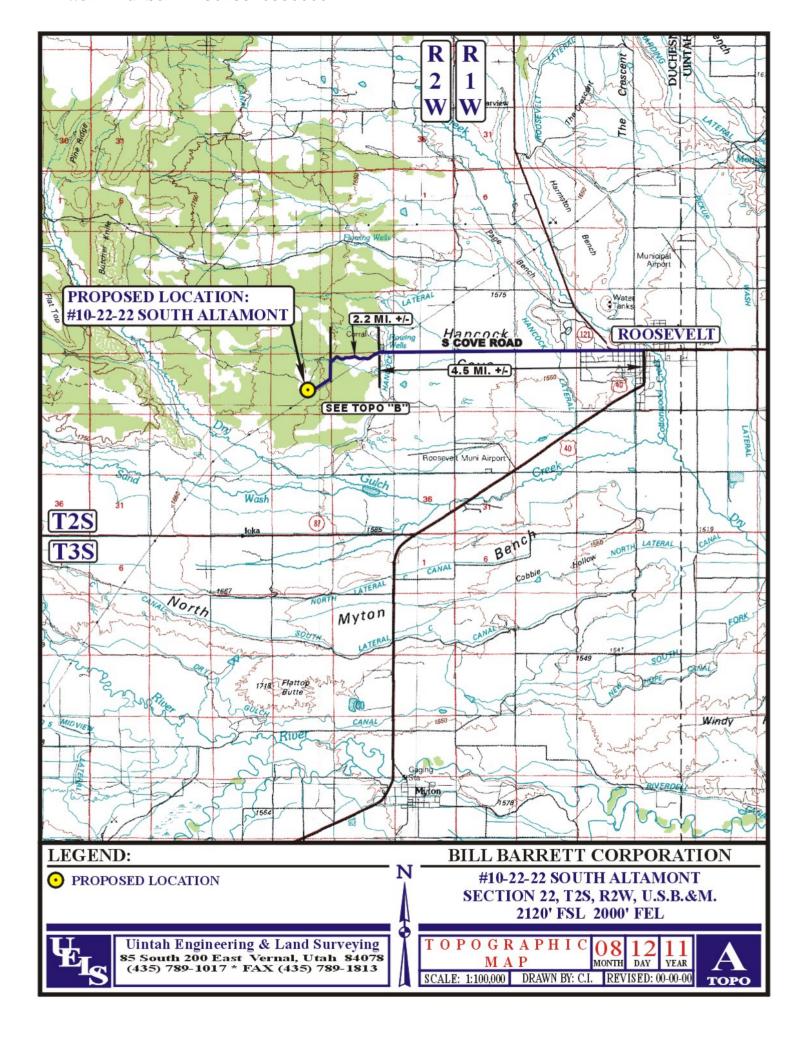
A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

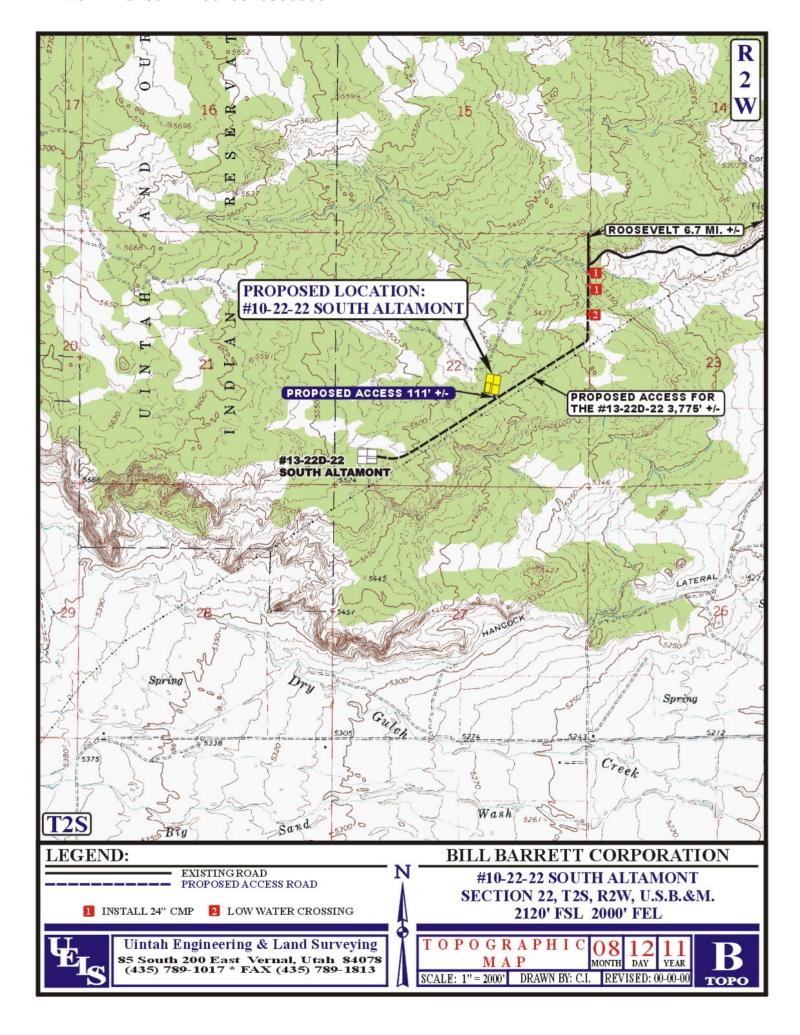
Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

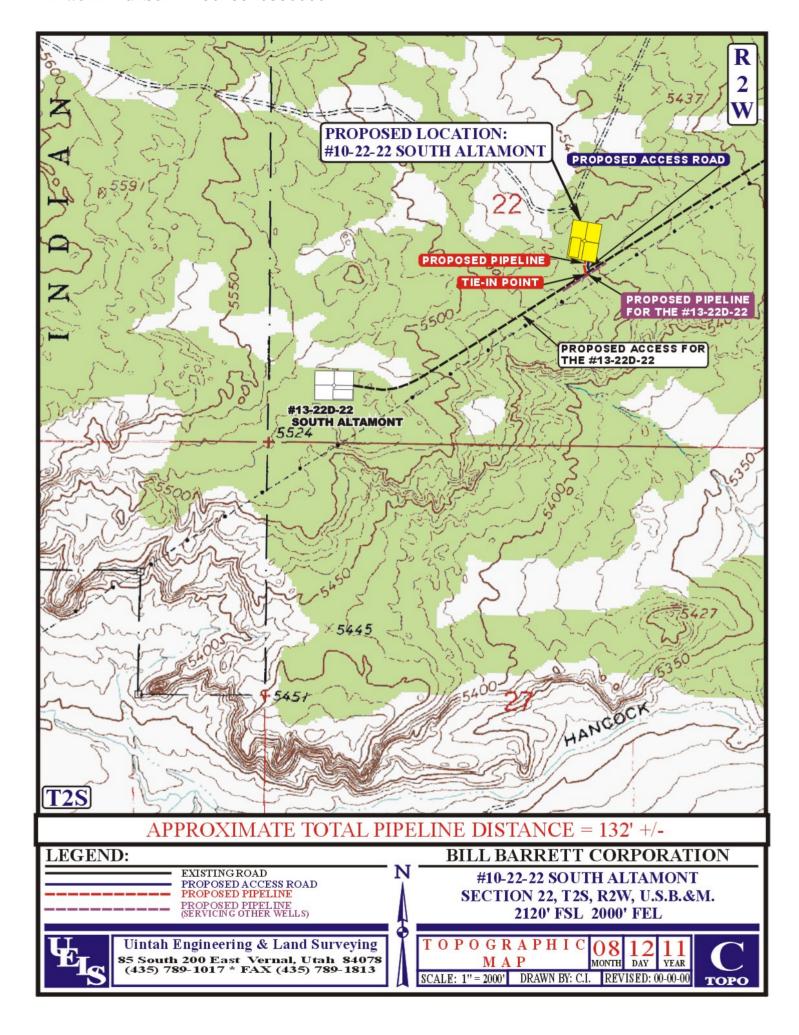
F. Miscellaneous Information:

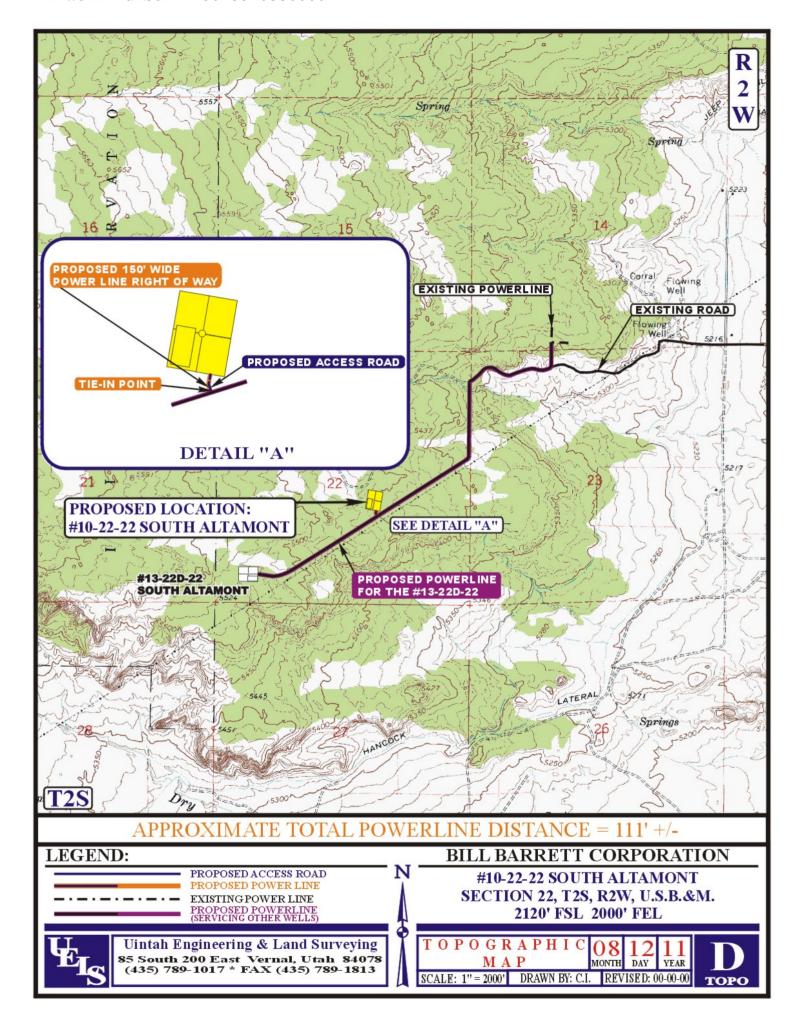
The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.









SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT

This Agreement, made and entered into this the 22 day of August, 2011, by and between Gerald K. Leavitt and Christy Leavitt husband and wife as joint tenants with full rights of survivorship, Rural Rt. 3 Box 3052, Roosevelt Utah, 84066 ("Surface Owner") and Bill Barrett Corporation, 1099 18th Street, Suite 2300, Denver CO 80202, ("BBC").

WITNESSETH THAT:

WHEREAS, Owner owns the surface of the S/2 NE/4, N/2SE/4SWSE/4, N/2N/2SE/4SE/4, SW/4SE/4, S/2NW/4SW/4 and SW/4 SW/4 of Section 22, T2 South, Range 2 West, located in Duchense County, Utah ("Owner's Lands")

WHEREAS, BBC owns undivided interests in oil and gas leases ("Leases") covering and affecting portions of Section 22, Township 2 South, Range 2 West, USM, of Duchesne County, Utah; and,

WHEREAS, such Leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the #10-22-22 South Altamont well ("the Well") at a legal drill-site location in the NW/4 of SE/4 Section 22, Township 2 South, Range 2 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of Owner's Landsand which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

WHEREAS, BBC has agreed to reimburse Surface Owner for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from BBC's operations hereunder, provided that BBC shall not be held liable or responsible for acts or occurrences beyond BBC's control, such payment to be made pursuant to a separate letter agreement between the parties hereto.

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair any fences and gates damaged by them during the course of their operations on the lands subject to this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land. Wherever the term "BBC" is used in this Agreement, it shall mean BBC and/or its successors and assigns.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the 12 day of Augus 1 By: Christy Leavitt

By: Christy Leavitt

By: By: Christy Leavitt

By: Christy Leavitt

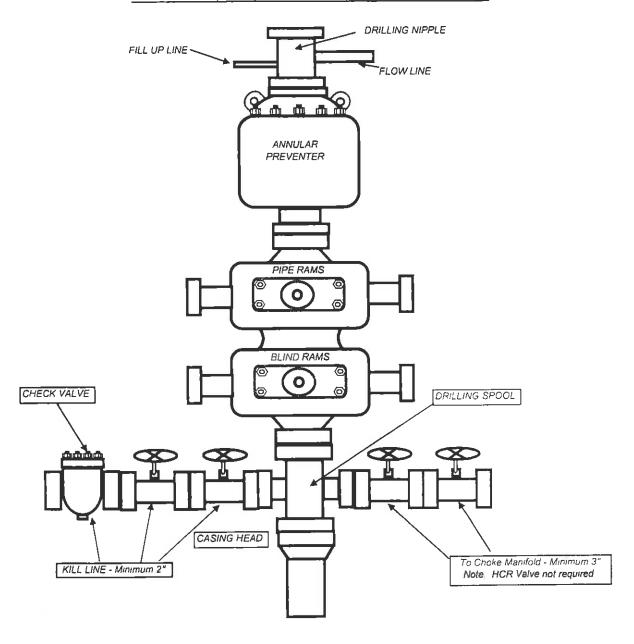
By: Christy Leavitt

By: Christy Leavitt SURFACE OWNER: BILL BARRETT CORPORATION As Agent for Bill Barrett Corporation STATE OF UTAH COUNTY OF On the day of , 2011, personally appeared before me Gerald K. Leavitt and Christy Leavitt known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purpose and consideration therein expressed, Notary Public Residing at: \ My Commission Expires: STATE OF UTAH COUNTY OF Sattlake On the 29th day of September, 2011, personally appeared before me Llint w Turner known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purpose and consideration therein expressed. Notary Public
Residing at: West Jundan 11tah My Commission Expires: 9-8-/5

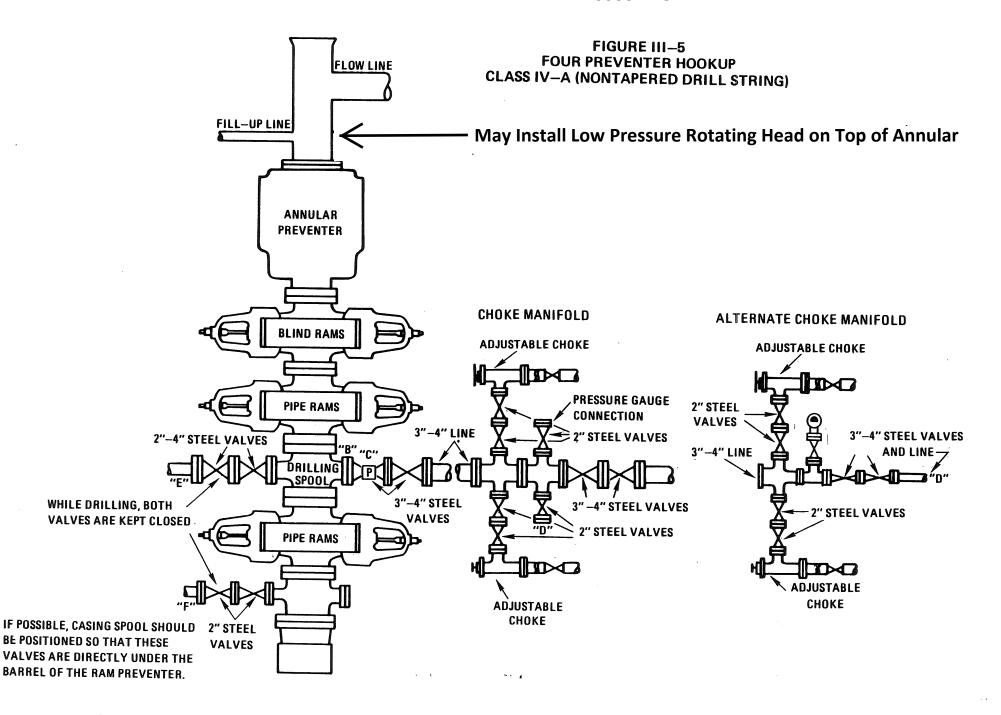


BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER

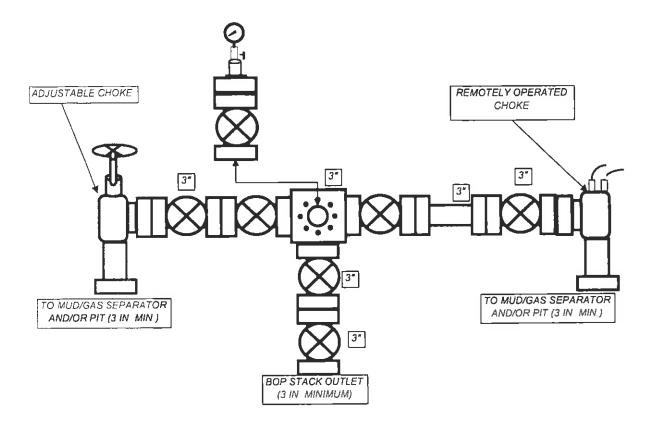


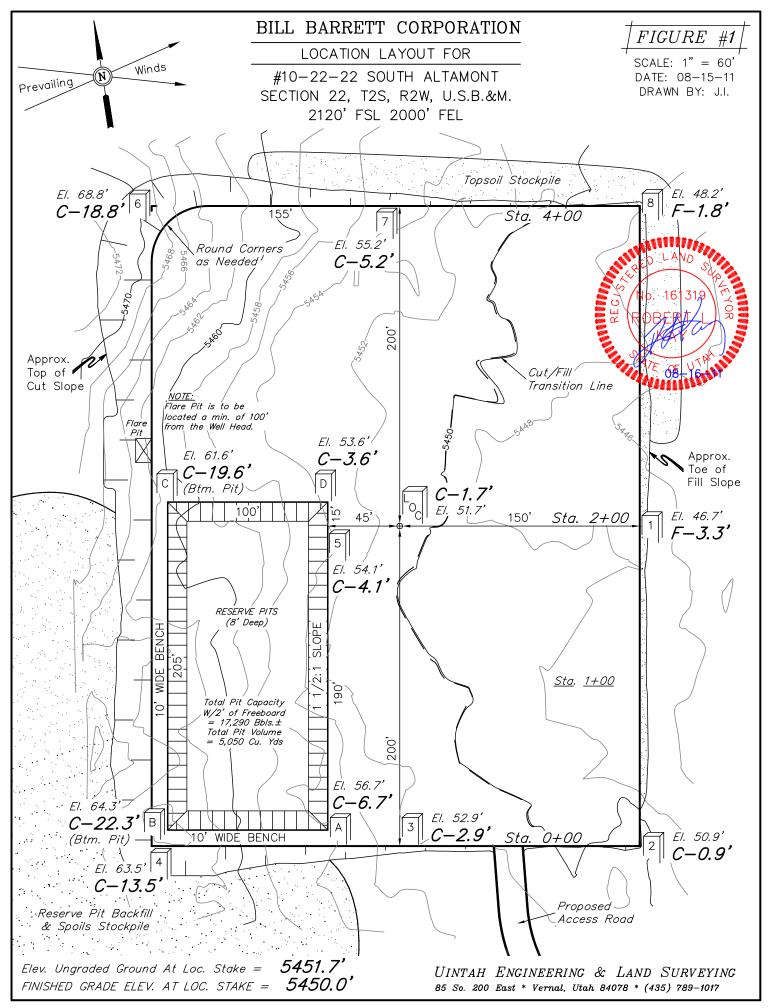
10000# BOP

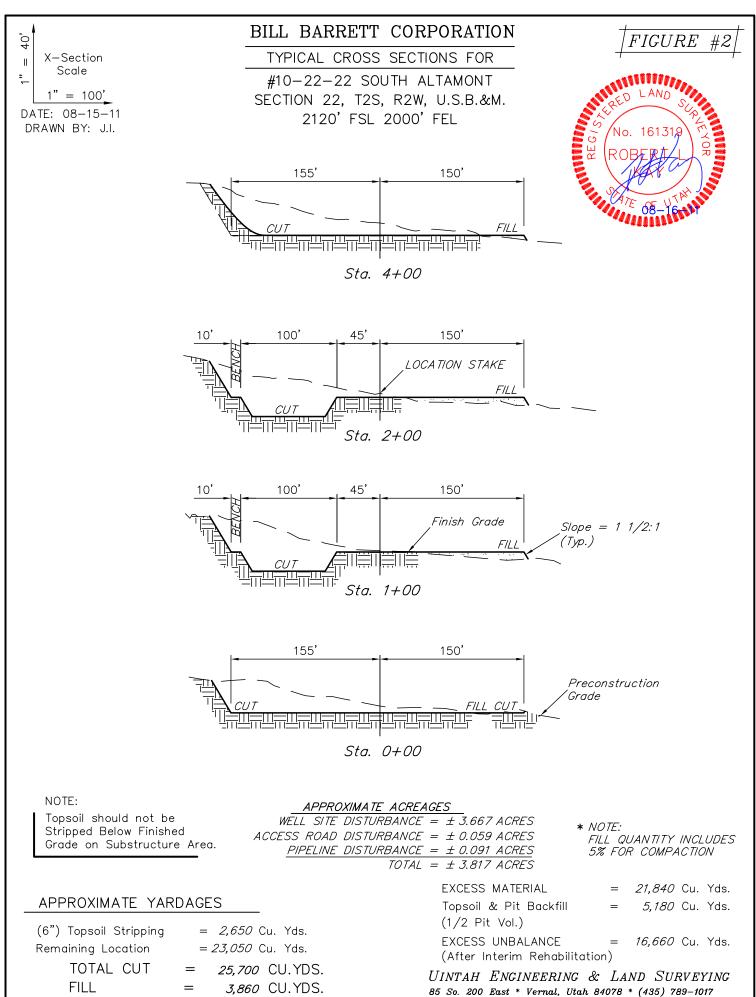


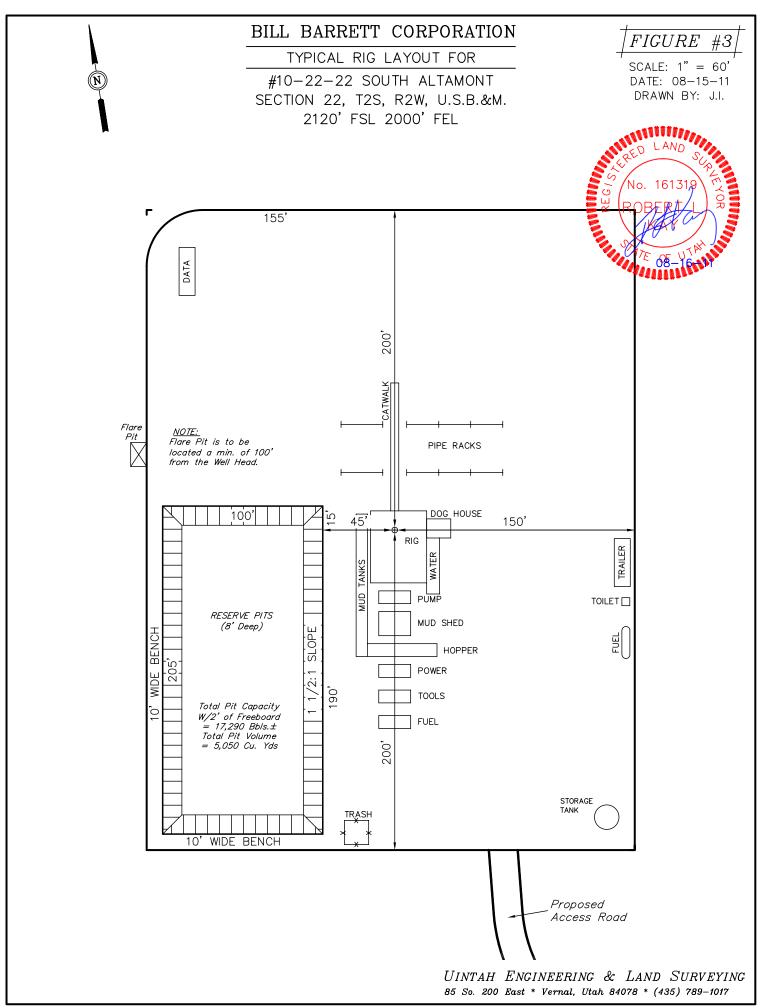
BILL BARRETT CORPORATION

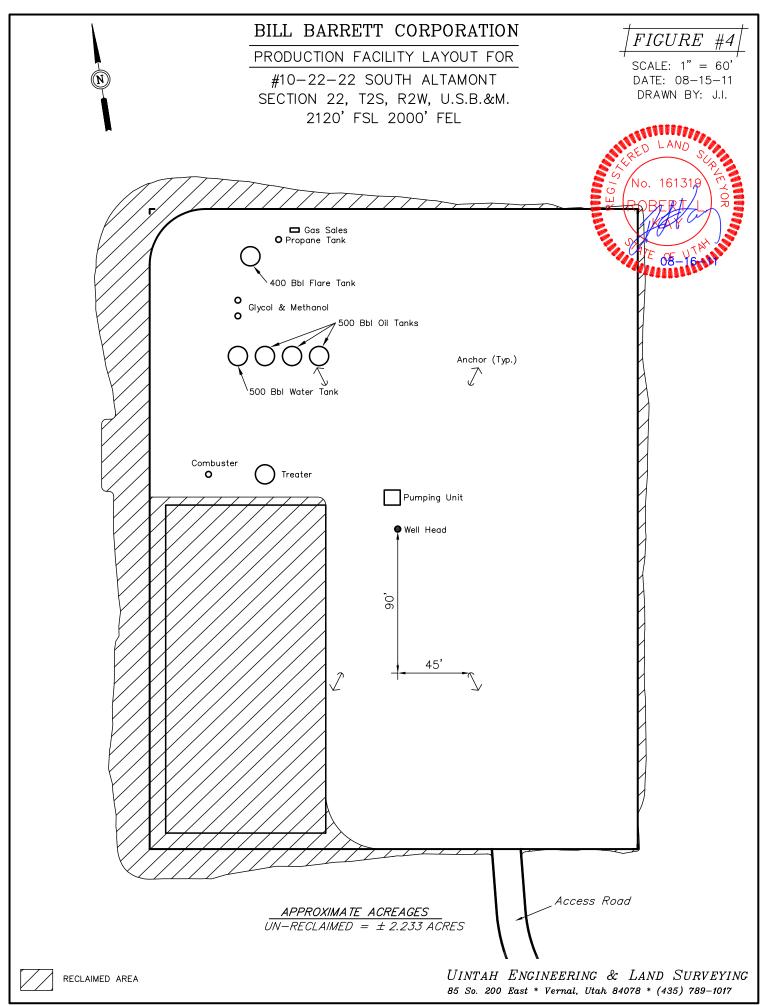
TYPICAL 5,000 p.s.i. CHOKE MANIFOLD

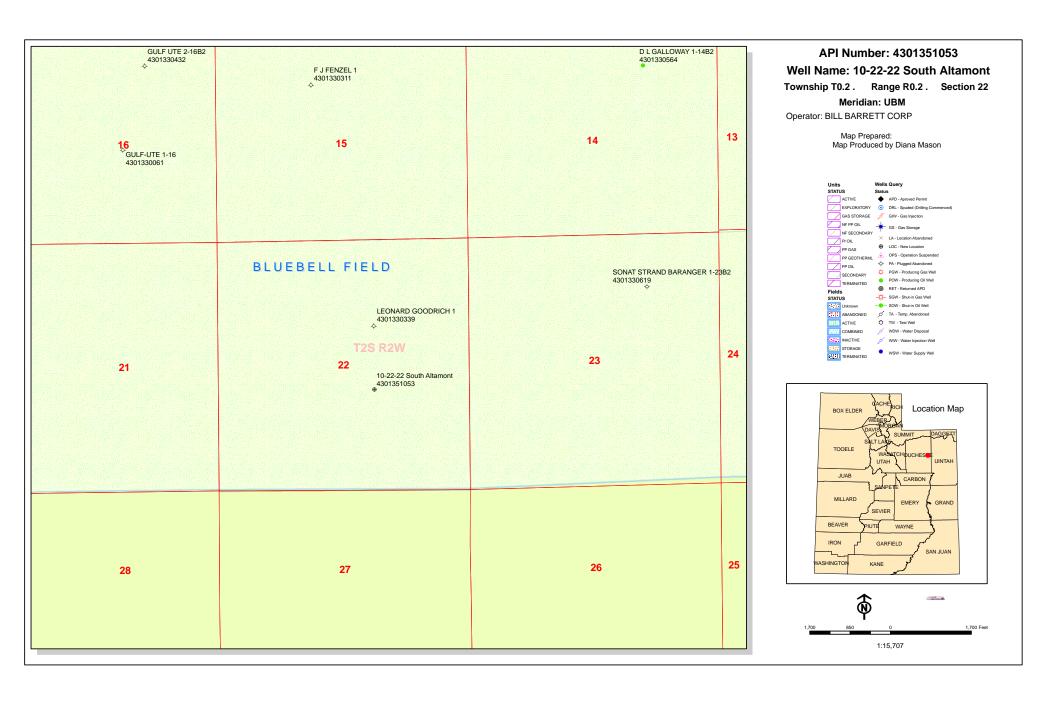












BOPE REVIEW BILL BARRETT CORP 10-22-22 South Altamont 43013510530000

Casing Internal Yield (psi)		1000	3450	5750	10640		
BOPE Proposed (psi)	0	500	3000	10000			
Max Mud Weight (ppg)	8.8	8.8	9.8	13.0			
Previous Shoe Setting Depth	0	100	2300	5500			
Setting Depth (TVD)	100	2300	5500	13045			
Casing Size(")	20.000	13.375	9.625	5.500			
String	COND	SURF	11	PROD			
Well Name		BILL BARRETT CORP 10-22-22 South Altamont 43013510530000					

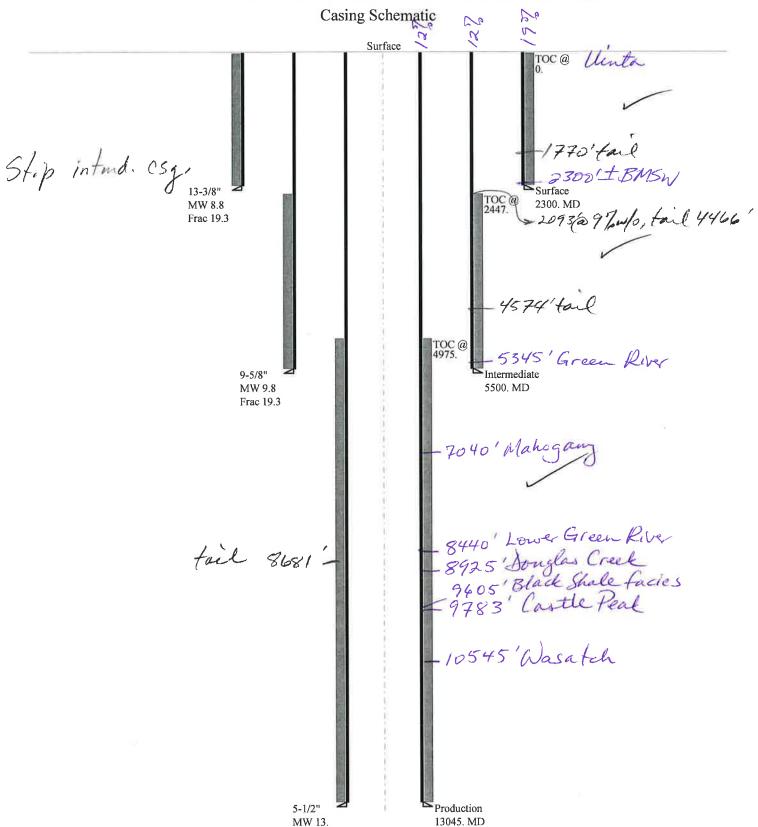
Calculations	COND String	20.000	"
Max BHP (psi)	.052*Setting Depth*MW=	46	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	34	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	24	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	24	NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ l	Previous Casing Shoe=	0	psi *Assumes 1psi/ft frac gradient

Calculations	SURF String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	1052	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	776	NO fresh wtr spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	546	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	568	NO Reasonable
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @	Previous Casing Shoe=	100	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2803	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2143	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1593	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	2099	YES OK
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @	Previous Casing Shoe=	2300	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	8818	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7253	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5948	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	7158	NO Reasonable
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @	Previous Casing Shoe=	5500	psi *Assumes 1psi/ft frac gradient

43013510530000 10-22-22 South Altamont



43013510530000 10-22-22 South Altamont Well name:

Operator:

Bill Barrett Corp

String type:

Surface

Project ID:

43-013-51053

Location:

DUCHESNE COUNTY

Design parameters: Minimum design factors: **Environment:**

Collapse

Mud weight: 8.800 ppg Design is based on evacuated pipe.

Collapse: Design factor

1.125

1.00

1.50 (J)

1.50 (B)

H2S considered? No Surface temperature: Bottom hole temperature:

74 °F 106 °F

Temperature gradient: Minimum section length: 1.40 °F/100ft 100 ft

Burst:

Design factor

Cement top:

Surface

Burst

Max anticipated surface

No backup mud specified.

pressure: 2,024 psi Internal gradient: 0.120 psi/ft Calculated BHP

2,300 psi

Tension:

8 Round STC: 1.80 (J) 1.70 (J) 8 Round LTC: Buttress: 1.60 (J)

Premium: Body yield:

Tension is based on air weight. Neutral point: 1.999 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

5,500 ft 9.800 ppg 2,800 psi

Fracture mud wt: Fracture depth: Injection pressure: 19.250 ppg 2,300 ft 2,300 psi

Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost
1	(ft) 2300	(in) 13.375	(lbs/ft) 68.00	J-55	ST&C	(ft) 2300	(ft) 2300	(in) 12. 2 9	(\$) 33548
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1051	1950	1.855	2300	3450	1.50	156.4	675	4.32 J

Prepared by: Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: January 25,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 2300 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43013510530000 10-22-22 South Altamont Well name:

Operator:

Bill Barrett Corp

String type:

Intermediate

Project ID:

43-013-51053

Location:

DUCHESNE COUNTY

Minimum design factors: **Environment:** Design parameters: Collapse Collapse:

Mud weight: 9.800 ppg Internal fluid density: 1.000 ppg

Design factor 1.125

H2S considered? No 74 °F Surface temperature: 151 °F Bottom hole temperature:

1.40 °F/100ft Temperature gradient: Minimum section length: 1,000 ft

Burst:

Design factor

1.00 Cement top: 2,447 ft

Burst

Max anticipated surface pressure:

Internal gradient: Calculated BHP

Annular backup:

4,290 psi 0.220 psi/ft 5,500 psi

1.00 ppg

Tension:

1.80 (J) 8 Round STC: 8 Round LTC: 1.80 (J) Buttress: 1.60 (J)

1.50 (J) Premium: 1.60 (B) Body yield:

Tension is based on air weight. Neutral point: 4,698 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

13,045 ft 13.000 ppg 8,810 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure:

5,500 ft 5,500 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	5 5 00	9.625	40.00	N-80	LT&C	5500	5500	8.75	69986
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (kips)	Strength (kips)	Design Factor
1	2514	3090	1.229	5214	5750	1.10	220	737	3.35 J

Prepared by:

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: January 25,2012 Salt Lake City, Utah

Remarks: Collapse is based on a vertical depth of 5500 ft, a mud weight of 9.8 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43013510530000 10-22-22 South Altamont Well name:

Bill Barrett Corp Operator:

Production String type:

Project ID: 43-013-51053

DUCHESNE COUNTY Location:

Minimum design factors: **Environment:** Design parameters: H2S considered?

Collapse: **Collapse**

Mud weight: 13.000 ppg Design factor 1.125 Internal fluid density:

Surface temperature: 2,000 ppg Bottom hole temperature: 257 °F

1.40 °F/100ft Temperature gradient:

No

74 °F

Minimum section length: 1,000 ft

Burst:

Design factor 1.00

4,975 ft Cement top:

Non-directional string.

Burst

Max anticipated surface

pressure: 5,940 psi Internal gradient: 0.220 psi/ft

Calculated BHP 8,810 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) 1.60 (J) Buttress:

Premium: 1.50 (J) Body yield: 1.60 (B)

Tension is based on air weight. Neutral point: 10,473 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	13045	5.5	17.00	HCP-110	LT&C	13045	13045	4.767	85925
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
1	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
	7454	8580	1.151	8810	10640	1.21	221.8	445	2.01 J

Prepared Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: January 25,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 13045 ft, a mud weight of 13 ppg. An internal gradient of .104 psi/ft was used for collapse from TD Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator BILL BARRETT CORP

Well Name 10-22-22 South Altamont

API Number 43013510530000 APD No 4902 Field/Unit BLUEBELL

Location: 1/4,1/4 NWSE Sec 22 Tw 2.0S Rng 2.0W 2120 FSL 2000 FEL

GPS Coord (UTM) 577102 4460444 Surface Owner Gerald & Christy Leavitt

Participants

Cody Rich (UELS), Don Hamilton (Starpoint), Matt Wold (BBC), Chris Jensen (DOGM), Jeff White (BBC), Jake Woodland (landman)

Regional/Local Setting & Topography

This well sits approximately 5.5 miles west of Roosevelt Utah in the Hancock Cove area. Drainage from this site is to the south east toward Dry Gulch Creek approximately 1.5 miles south. There are scattered homes throughout this area.

Surface Use Plan

Current Surface Use

Wildlfe Habitat

New Road
Miles

Well Pad

Src Const Material

Surface Formation

0.02 Width 305 Length 400 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Cheat grass, sage, greaswood, pinyon, juniper, shadscale, Russian thistle

Rabbits, deer

Soil Type and Characteristics

Sandy soil, fairly deep

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

2/16/2012 Page 1

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ranl		
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Salt or Detrimental	10	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	3 5	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is 205ft by 100ft by 8ft deep. It is placed in a cut stable location. Bill Barrett typically uses a 20 mil liner and this will be adequate for this site.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Richard Powell 12/8/2011

Evaluator Date / Time

2/16/2012 Page 2

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

Page 1

APD No API WellNo Status Well Type Surf Owner CBM
4902 43013510530000 LOCKED OW P No
Operator BILL BARRETT COPP Surface Owner-APD Gerald & Christy

Operator BILL BARRETT CORP Surface Owner-APD Leavitt

Well Name 10-22-22 South Altamont Unit

Field BLUEBELL Type of Work DRILL

Location NWSE 22 2S 2W U 2120 FSL 2000 FEL GPS Coord

(UTM) 577048E 4460646N

Geologic Statement of Basis

Bill Barrett proposes to set 100' of conductor and 2,300' of surface casing at this location. The surface hole will be drilled with fresh water mud. The base of the moderately saline water at this location is estimated to be at a depth of 2,300'. A search of Division of Water Rights records shows over 30 water wells within a 10,000 foot radius of the center of Section 22. Depth is listed as ranging from 26 to 1,000 feet. Average depth is approximately 175 feet. Water use is listed as irrigation, stock watering, industrial, municipal and domestic. Two municipal wells, owned by Roosevelt City, are over a mile from the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed surface casing should adequately protect useable ground water in this area.

Brad Hill 12/20/2011
APD Evaluator Date / Time

Surface Statement of Basis

Surface

This proposed well is on fee land with fee minerals. The land owners were invited to this onsite inspection but stated that they would not be able to attend. There is a land owner agreement in place and the land owners expressed no concerns with this site. The location is proposed in a stable location with no drainages being effected. Bill Barrett plans to use a 20 mil liner with a felt subliner and this appears adequate for this site.

Richard Powell 12/8/2011
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

CategoryConditionPitsA synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.SurfaceThe well site shall be bermed to prevent fluids from leaving the pad.SurfaceThe reserve pit shall be fenced upon completion of drilling operations.

Drainages adjacent to the proposed pad shall be diverted around the location.

RECEIVED: February 16, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

WELL NAME: 10-22-22 South Altamont

OPERATOR: BILL BARRETT CORP (N2165) **PHONE NUMBER:** 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWSE 22 020S 020W Permit Tech Review:

SURFACE: 2120 FSL 2000 FEL Engineering Review:

✓

BOTTOM: 2120 FSL 2000 FEL Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.29276 LONGITUDE: -110.09350 UTM SURF EASTINGS: 577048.00 NORTHINGS: 4460646.00

FIELD NAME: BLUEBELL
LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH
SURFACE OWNER: 4 - Fee COALBED METHANE: NO

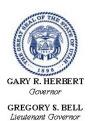
RECEIVED AND/OR REVIEWED: LOCATION AND SITING: ✓ PLAT R649-2-3. Bond: STATE - LPM4138148 Unit: **Potash** R649-3-2. General Oil Shale 190-5 R649-3-3. Exception Oil Shale 190-3 Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 139-42 Water Permit: 43-180 Effective Date: 4/12/1985 **RDCC Review:** Siting: 660' Fr Exterior Unit Boundary Fee Surface Agreement Intent to Commingle R649-3-11. Directional Drill **Commingling Approved**

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill

12 - Cement Volume (3) - hmacdonald

API Well No: 43013510530000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: 10-22-22 South Altamont

API Well Number: 43013510530000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)
Approval Date: 2/16/2012

Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-42. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 9 5/8" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2100' MD as indicated in the submitted drilling plan.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

API Well No: 43013510530000

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well contact Carol Daniels OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

• Carol Daniels 801-538-5284 - office

• Dustin Doucet 801-538-5281 - office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
 - Well Completion Report (Form 8) due within 30 days after completion or plugging

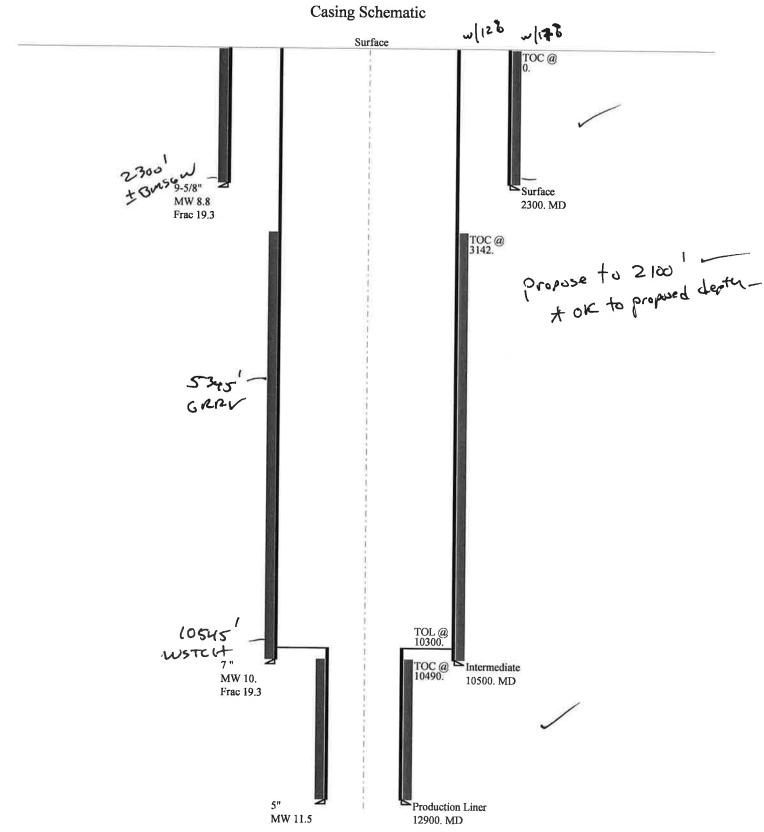
Approved By:

For John Rogers Associate Director, Oil & Gas Sundry Number: 23836 API Well Number: 43013510530000

	STATE OF UTAH		FORM 9		
	ELEACE DESIGNATION AND SERIAL NUMBER.				
	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee				
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 10-22-22 South Altamont		
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013510530000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202 3	PHONE NUMBER: 003 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Merio	dian: U	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
5/1/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
Date of Work Completion:					
	OPERATOR CHANGE	PLUG AND ABANDON	L PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
Report Date.	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	Ill pertinent details including dates.	depths, volumes, etc.		
	as been reivsed to reflect the		Approved by the		
,	sistent with other plans in th	•	Utah Division of		
, , , ,	ed Enerplus APD's. See revis	U . U	Oil, Gas and Mining		
attached.	Permitted TD: 13,045' Revise	ed TD: 12,900'	Date: March 22, 2012		
			By: 187 h Junt		
NAME (PLEASE PRINT)	PHONE NUMBI	ER TITLE			
Venessa Langmacher	303 312-8172	Senior Permit Analyst			
SIGNATURE N/A		DATE 3/12/2012			

Sundry Number: 23836 API Well Number: 43013510530000

43013510530000 10-22-22 South AltamontRev.



Well name:

43013510530000 10-22-22 South AltamontRev.

Operator:

Bill Barrett Corp

String type:

Location:

Surface

DUCHESNE COUNTY

Project ID:

43-013-51053

Design parameters:

<u>Collapse</u>

Mud weight: 8.800 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

Environment:

H2S considered? Surface temperature: Bottom hole temperature:

No 74 °F 106 °F

Temperature gradient: Minimum section length:

1.40 °F/100ft 100 ft

Burst:

Tension:

Buttress:

8 Round STC:

8 Round LTC:

Design factor

1.00 Cement top:

1.125

1.80 (J)

1.70 (J)

1.60 (J)

1.50 (J)

1.50 (B)

Surface

Burst

Max anticipated surface pressure:

Internal gradient: Calculated BHP

1,794 psi 0.220 psi/ft

2,300 psi

No backup mud specified.

Premium: Body yield:

Tension is based on air weight. Neutral point: 2.001 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

10,500 ft 10.000 ppg 5,455 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure:

2,300 ft 2,300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2300	9.625	36.00	J-55	ST&C	2300	2300	8.796	19992
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load	Tension Strength	Tension Design
1	1051	2020	1.921	2300	3520	1.53	(kips) 82.8	(kips) 394	Factor 4.76 J

Prepared

Dustin K. Doucet

Div of Oil, Gas & Mining

Phone: 801 538-5281 FAX: 801-359-3940

Date: March 22,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 2300 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43013510530000 10-22-22 South AltamontRev. Well name:

Operator: **Bill Barrett Corp**

Intermediate String type: Project ID: 43-013-51053

DUCHESNE COUNTY Location:

Design parameters: Minimum design factors: **Environment:**

Collapse

Mud weight: Internal fluid density: 1.000 ppg

10.000 ppg Design factor

Collapse: H2S considered? 1.125

Surface temperature: 74 °F Bottom hole temperature: 221 °F

Temperature gradient: 1.40 °F/100ft Minimum section length: 1,000 ft

No

3.142 ft

Burst:

Design factor 1.00 Cement top:

Burst

Max anticipated surface

pressure: 4,868 psi Internal gradient: 0.220 psi/ft

Calculated BHP 7,178 psi

Annular backup: 1.00 ppg **Tension:**

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) Buttress: 1.60 (J)

Premium: 1.50 (J) Body yield: 1.60 (B)

Tension is based on air weight. Neutral point: 8.916 ft Non-directional string.

Re subsequent strings:

Next setting depth: 12,900 ft Next mud weight: 11.500 ppg Next setting BHP: 7,706 psi Fracture mud wt: 19.250 ppg Fracture depth: 10,500 ft

Injection pressure: 10,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10500	7	26.00	P-110	LT&C	10500	10500	6.151	109147
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load	Tension Strength	Tension Design
1	4909	6230	1.269	6633	9950	1.50	(kips) 273	(kips) 693	Factor 2.54 J

Dustin K. Doucet Prepared Div of Oil, Gas & Mining Phone: 801 538-5281 FAX: 801-359-3940

Date: March 22,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 10500 ft, a mud weight of 10 ppg. An internal gradient of .052 psi/ft was used for collapse from TD Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013510530000 10-22-22 South AltamontRev.

Minimum design factors:

Operator:

Bill Barrett Corp

String type:

Production Liner

Project ID:

Location:

DUCHESNE COUNTY

43-013-51053

Design parameters:

Collapse

Mud weight:

11.500 ppg Design is based on evacuated pipe.

Collapse: Design factor

1.125

Environment: H2S considered?

No Surface temperature: 74 °F Bottom hole temperature:

255 °F 1.40 °F/100ft

Temperature gradient: Minimum section length: 1,000 ft

Burst:

Design factor

1.00

1.80 (J)

1.80 (J)

1.60 (J)

1.50 (J)

12,445 ft

Cement top:

10,490 ft

Burst

Max anticipated surface

Calculated BHP

pressure: 4,868 psi Internal gradient:

No backup mud specified.

0.220 psi/ft 7,706 psi

Buttress: Premium: Body yield:

Neutral point:

Tension:

8 Round STC: 8 Round LTC:

1.60 (B) Tension is based on air weight.

Liner top:

10,300 ft

Non-directional string.

Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost
(ft)	(in)	_			(ft)	(ft)	(in)	(\$)
2600	5	18.00	P-110	ST-L	12900	12900	4.151	22548
Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
(psi)	(psi)	Factor	(psi)	(psi)	Factor	/ (kips)	(kips)	Factor
7706	13470	1.748	7706	13940	1.81 🗸	46.8	384	8.21 J
	Length (ft) 2600 Collapse Load (psi)	(ft) (in) 2600 5 Collapse Collapse Load Strength (psi) (psi)	Length Size Weight (ft) (in) (lbs/ft) 2600 5 18.00 Collapse Collapse Collapse Load Strength Design (psi) (psi) Factor	Length Size Weight Grade (ft) (in) (lbs/ft) 2600 5 18.00 P-110 Collapse Collapse Collapse Burst Load Strength Design Load (psi) (psi) Factor (psi)	Length (ft)Size (in)Weight (lbs/ft)GradeFinish2600518.00P-110ST-LCollapse LoadCollapse Strength (psi)Collapse Design (psi)Burst Load Strength (psi)Burst Strength (psi)	Length (ft)Size (in)Weight (lbs/ft)GradeFinish (ft)Depth (ft)2600518.00P-110ST-L12900CollapseCollapseCollapseBurstBurstBurstLoadStrengthDesignLoadStrengthDesign(psi)(psi)Factor(psi)(psi)Factor	Length (ft)Size (in)Weight (lbs/ft)Grade (radeFinish (ft)Depth (ft)Depth (ft)2600518.00P-110ST-L1290012900Collapse Load (psi)Collapse (psi)Collapse (psi)Burst Strength (psi)Burst Strength (psi)Burst Strength (psi)Burst Strength (psi)Design Factor (kips)	Length (ft)Size (in)Weight (lbs/ft)Grade (rd)Finish (ft)Depth (ft)Depth (ft)Diameter (in)2600518.00P-110ST-L12900129004.151Collapse Load Strength (psi)Collapse Design (psi)Collapse Design (psi)Burst Strength (psi)Burst Design (psi)Burst Design (psi)Tension Design (psi)

Prepared

Dustin K. Doucet

Div of Oil, Gas & Mining

Phone: 801 538-5281 FAX: 801-359-3940

Date: March 22,2012 Salt Lake City, Utah

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 12900 ft, a mud weight of 11.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

BILL BARRETT CORPORATION <u>DRILLING PLAN</u>

#10-22-22 South Altamont

NW SE, 2120' FSL and 2000' FEL Section 22, T2S-R2W USB&M Duchesne County, UT

1-2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

Formation	Depth –MD/TVD
Green River*	5,345'
Mahogany	7,040'
Lower Green River	8,440'
Douglas Creek	8,925'
Black Shale Facies	9,605'
Castle Peak	9,775'
Wasatch*	10,545'
TD	12,900'

^{*}PROSPECTIVE PAY

The Green River and Wasatch are primary objectives for oil/gas.

3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment					
0-2,300'	No pressure control required (may pre-set 9-5/8" with smaller rig)					
	See Appendix A below if a small rig is used					
2300' - TD	11" 5000# Double Ram Type BOP (Pipe/Blind)					
	11" 5000# Single Pipe Ram Type BOP					
	11" 5000# Annular BOP					
- Drilling spool to a	accommodate choke and kill lines;					
- Ancillary equipme	ent and choke manifold rated at 10,000 psi. All BOP and BOPE tests will be in					
accordance with the	he requirements of onshore Order No. 2;					

- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.

4. Casing Program

Hole	SETTING	G DEPTH	Casing	Casing	Casing		
<u>Size</u>	(FROM)	<u>(TO)</u>	<u>Size</u>	Weight	<u>Grade</u>	Thread	Condition
24"	Surface	100'	16"	65#		welded	new
12-1/4"	surface	2,300'	9-5/8"	36#	J or K 55	STC	New
8-3/4"	surface	10,500'	7"	26#	P110	LTC	New
6-1/8"	10,300'	12,900'	5" Liner	18#	P110	STL FJ or	New
						equiv	

Note: May pre-set 9-5/8" surface casing with spudder rig. See Appendix A below.

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Bill Barrett Corporation Drilling Program #10-22-22 South Altamont Duchesne County, Utah

5. <u>Cementing Program</u>

Casing	<u>Cement</u>
16" Conductor Casing	Grout
	Lead: 360 sx Halliburton Light w/ additives and LCM,
12-1/4" hole for 9-5/8" Surface	11.0 ppg, 3.16 ft3/sx, 1800' fill, 100% excess
Casing	Tail: 225 sx Halliburton Premium w/ additives and LCM,
(may pre-set with spudder rig)	14.8 ppg, 1.39 ft3/sx, 500' fill, 100% excess
	Cement to surface, top out as necessary.
	Lead: 430 sx Tuned Light cement w/ additives mixed at
8-3/4" hole for 7" intermediate	11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). 4400' fill, 50% excess
casing	Tail: 630 sx Halliburton Econocem w/ additives mixed at
	13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$). 4000' fill, 50% excess.
	Planned TOC @ 2100'.
	200 sx EXPANDACEM w/ additives, 14.30 ppg, 1.45
6-1/8" hole for 5" production	ft3/sx, 2400' fill, 50% excess
liner	Planned TOC @ 10300' (TOL)

6. <u>Mud Program</u>

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss (API filtrate)	<u>Remarks</u>
0'-2,300'	Air/Mist/	26 - 36	NC	Air/Mist/Freshwater Spud Mud
	8.3 - 8.7			Fluid System
2,300'- 5,500'	9.2 - 9.4	26 - 36	NC	Freshwater Mud Fluid System
5,500' – 10,500'	9.4 - 10.0	42-58	25 cc or less	DAP Fluid System
10,500° – TD	10.0 - 11.5	58-60	< 10 cc	LSND FW mud

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI, Sonic Scanner, GEM, HFDT to be run at geologist's discretion.

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Bill Barrett Corporation Drilling Program #10-22-22 South Altamont Duchesne County, Utah

8. <u>Anticipated Abnormal Pressures or Temperatures</u>

No abnormal temperatures are anticipated.

Maximum anticipated bottom hole pressure equals approximately 7714 psi*

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

11. <u>Drilling Schedule</u>

Location Construction: April 2012 Spud: April 2012

Duration: 18 days drilling time 45 days completion time

12. Appendix A

If we pre-set the 9-5/8" casing on this well with a spudder rig, the following equipment shall be in place and operational during air/gas drilling:

- Properly lubricated and maintained rotating head*
- Spark arresters on engines or water cooled exhaust*
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment*
- All cuttings and circulating medium shall be directed into a reserve or blooie pit*
- Float valve above bit*
- Automatic igniter or continuous pilot light on the blooie line*
- Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits

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	STATE OF UTAH				FORM 9
	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		3	5.LEASE DESIGNATION AND SE Fee	RIAL NUMBER:
SUNDR	Y NOTICES AND REPORTS	ON	WELLS	6. IF INDIAN, ALLOTTEE OR TR	IBE NAME:
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly reenter plugged wells, or to drill horize n for such proposals.	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAI	νΕ:	
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 10-22-22 South Altamont	
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013510530000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCA BLUEBELL	T:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL				COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: 2	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Me	ridian:	U	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION		
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show QUESTS this Well to be held in	C C C C C C C C C C	_	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FO TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Confidential Status Lepths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Minin FOR RECORD May 02, 2012	g
NAME (DI FACE DEVICE)			TITLE		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMI 303 312-8172	BER	TITLE Senior Permit Analyst		
SIGNATURE N/A			DATE 4/26/2012		

			FORM 9
	STATE OF UTAH	res	
	DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	reenter plugged wells, or to drill horizo		7.UNIT or CA AGREEMENT NAME:
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TYPE OF SUBMISSION		TYPE OF ACTION	
,	ACIDIZE	ALTER CASING	CASING REPAIR
TYPE OF SUBMISSION NOTICE OF INTENT Approximate date work will start: 6/1/2012 SUBSEQUENT REPORT Date of Work Completion: SPUD REPORT Date of Spud:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
	DEEPEN	RTMENT OF NATURAL RESOURCES ON OF OIL, GAS, AND MINING TICES AND REPORTS ON WELLS TO drill new wells, significantly deepen existing wells below olugged wells, or to drill horizontal laterals. Use APPLICATION proposals. PHONE NUMBER: 303 312-8164 Ext TYPE OF ACTION OPRIATE BOXES TO INDICATE NATURE OF NOTICE, REP TYPE OF ACTION DIZE ALTER CASING CHANGE TUBING LINGE WELL STATUS COMMINGLE PRODUCING FORMATIONS PEN FRACTURE TREAT SERATOR CHANGE PLUG AND ABANDON DIZE PLUG AND ABANDON CHANGE TO PREVIOUS STATE OR RESUME RECLAMATION OF WELL SITE PERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL LING REPAIR TER SHUTOFF SI TA STATUS EXTENSION	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	_		RECOMPLETE DIFFERENT FORMATION
			TEMPORARY ABANDON
	_		☐ WATER DISPOSAL ☐
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
BBC requests to rev	rise the 7" intermediate casi of the 7" casing depth chang	ng depth from 10,500' to	Approved by the
			By: Dork Dunt
NAME (PLEASE PRINT) Venessa Langmacher			
SIGNATURE N/A			

	STATE OF UTAH			FOR	RM 9
ι	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M		3	5.LEASE DESIGNATION AND SERIAL NUMB Fee	3ER:
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NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME	
Approximate date work will start:	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	RACTURE TREAT	☐ NEW CONSTRUCTION	
24.0 5. 110.1. 50.1	OPERATOR CHANGE		PLUG AND ABANDON	PLUG BACK	
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
6/8/2012	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON	
DRILLING REPORT	L TUBING REPAIR	□ '	ENT OR FLARE	WATER DISPOSAL	
Report Date:	WATER SHUTOFF	∟s	SI TA STATUS EXTENSION	APD EXTENSION	
	WILDCAT WELL DETERMINATION		OTHER	OTHER:	
Conductor casing w	completed operations. Clearly shown as set on this well on 06/0 e casing on 06/13/2012 to	8/20	12. Pro-Petro will be		,
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUN 303 312-8172	MBER	TITLE Senior Permit Analyst		
SIGNATURE N/A			DATE 6/12/2012		

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

Bill Barrett Corporation

Operator Account Number: N

Address:

1099 18th Street, Suite 2300

city Denver

state CO

Phone Number: _(303) 312-8172

Well 1

API Number	Well	QQ	Sec	Twp	Rng	County		
4301351053	10-22-22 South Altar	NWSE	22	28	2W	Duchesne		
Action Code	Current Entity Number			Spud Date		Entity Assignment Effective Date		
Α	99999	18560		6/8/201	2	61	13 /2012	
Comments:						AALIM	A SILIMILA	

Spudding Operation was conducted by Triple A Drilling @ 8:00 am.

zip 80202

Well 2

API Number	Well	Name	QQ	Sec	Twp	Rng	County	
4301350900	8-6-45 BTR		SENE	6	48	5W	Duchesne	
Action Code	Current Entity Number	s	Spud Date		Entity Assignment Effective Date			
Α	99999	18561	6/1/2012		2	6113 12012		

Spudding Operation was conducted by Triple A Drilling @ 8:00 am.

Well 3

API Number	Well	QQ	Sec	Twp	Rng	County		
4301350884	7-4D-45 BTR	SWNE	4	48	5W	Duchesne		
Action Code	Current Entity Number			Spud Date		Entity Assignment Effective Date		
А	99999	19562	6/4/2012		(11312012			

Spudding Operation was conducted by Triple A Drilling @ 4:30 pm.

ACTION CODES:

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- Re-assign well from one existing entity to a new entity

 Re-assign well from one existing entity to a new entity

 RECEIVED
- E Other (Explain in 'comments' section)

JUN 1 3 2012

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Title

Sr Permit Analyst

6/12/2012

Date

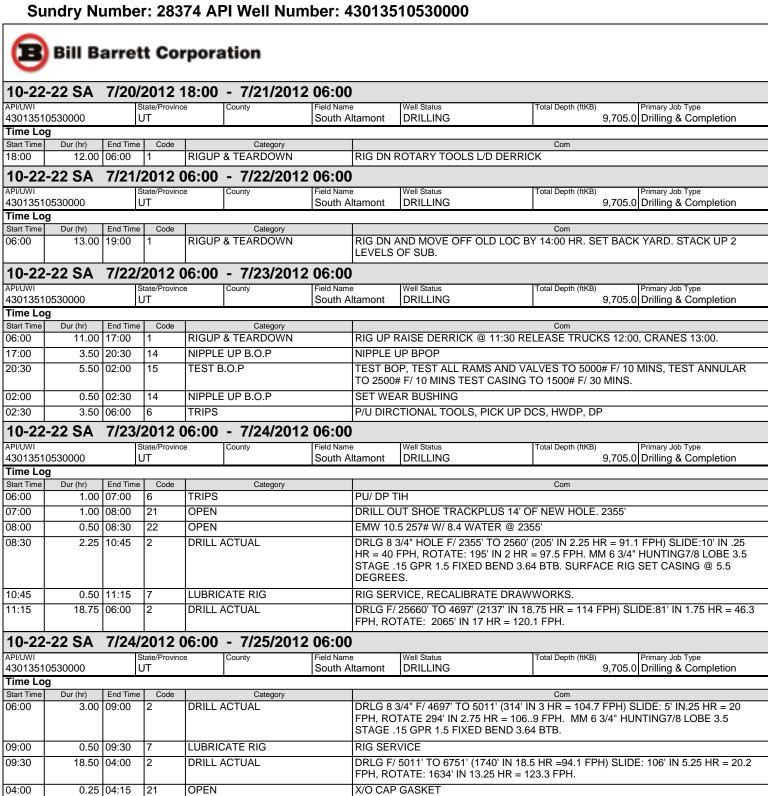
BLM - Vernal Field Office - Notification Form

Ope	rator <u>Bill Barrett Corp.</u>	Rig Name/# H8	&P #273
	mitted By Bobby Perkins		
	Name/Number SA 10-22		<u> </u>
	Qtr <u>NW/SE</u> Section <u>22</u> To		o 2\M
		wilship <u>23 </u>	C ZVV
	se Serial Number		
API	Number 43-013-51053		
Cour	d Natice Caudia the init	into and dina a of the	
	<u>d Notice</u> – Spud is the init	ial spudding of the	well, not arilling
out	below a casing string.		
	Data/Tima	A N A	
	Date/Time	AIM _	PM []
Caci	<u>ng</u> – Please report time ca	acing run starts not	t comonting
time	- · · ·	asing run starts, not	cementing
			RECEIVED
\bowtie	Surface Casing		JUN 1 4 2012
	Intermediate Casing		JUN 1 7 ZUIZ
	Production Casing	·	DIV. OF OIL, GAS & MINING
	Liner		
	Other		
	Date/Time <u>6-15-12</u>	1800 AM F	PM 🔀
<u>BOP</u>	<u>'E</u>		
	Initial BOPE test at surfa	ce casing point	
	BOPE test at intermediat	e casing point	
$\overline{\boxtimes}$	30 day BOPE test	51	
Ħ	Other		
L			
	Date/Time <u>7-15-12</u>	1000 AM P	м 🖂
	Date/ Time / 15-12	1000 AM P	M 🖂
Dom	narke		
	narks	FF CTC	
<u>kun</u>	<u>2300' 9 5/8, Cas, 36# ,</u> J	<u>-55, SIC</u>	

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.	/ deepen existing wells below ontal laterals. Use APPLICATIC	7.UNIT or CA AGREEMENT NAME:
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SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
6/30/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
		U OTHER	<u> </u>
	COMPLETED OPERATIONS. Clearly shownth; no other June 2012 more report.		
NAME (PLEASE PRINT)	PHONE NUM	BER TITLE	
Megan Finnegan	303 299-9949	Permit Analyst	
SIGNATURE N/A		DATE 7/3/2012	

RECEIVED: Jul. 03, 2012

	FORM 9		
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
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,	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
7/31/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
July 2012	COMPLETED OPERATIONS. Clearly show all permonthly drilling activity report	TITLE	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 06, 2012
Megan Finnegan	303 299-9949	Permit Analyst	
SIGNATURE N/A		DATE 8/2/2012	



	9							
Start Time	Dur (hr)	End Time	Code	Category	Com			
06:00	3.00	09:00	2	DRILL ACTUAL	DRLG 8 3/4" F/ 4697' TO 5011' (314' IN 3 HR = 104.7 FPH) SLIDE: 5' IN.25 HR = 20 FPH, ROTATE 294' IN 2.75 HR = 1069 FPH. MM 6 3/4" HUNTING7/8 LOBE 3.5 STAGE .15 GPR 1.5 FIXED BEND 3.64 BTB.			
09:00	0.50	09:30	7	LUBRICATE RIG	RIG SERVICE			
09:30	18.50	04:00	2	DRILL ACTUAL	DRLG F/ 5011' TO 6751' (1740' IN 18.5 HR =94.1 FPH) SLIDE: 106' IN 5.25 HR = 20.2 FPH, ROTATE: 1634' IN 13.25 HR = 123.3 FPH.			
04:00	0.25	04:15	21	OPEN	X/O CAP GASKET			
04:15	0.75	05:00	2	DRILL ACTUAL	DRLG F/ 6751' TO 6802' (51' IN .75 HR = 68 FPH) ROTATING			
05:00	0.75	05:45	20	DIRECTIONAL WORK	MWD PROBLEMS			
05:45	0.25	06:00	2	DRILL ACTUAL	DRLG F/ 6802 TO 6806' SLIDING @ 24' FPH			

10-22-22 SA 7/25/2012 06:00 - 7/26/2012 06:00

AI I/OWI	State/1 TOVITICE	County	i leid i valifie	Well Status	Total Deptil (ItiND)	i ililiary Job Type
43013510530000	UT		South Altamont	DRILLING	9,705.0	Drilling & Completion
Time Log						

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6806-6808'. ROP 8 FPH.

www.peloton.com Page 1/3 Report Printed: 8/2/2012



	,			p					
Time Lo	g								
Start Time	Dur (hr)	End Time	Code	Category	Com				
06:15	1.25	07:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6808-6896'. ROP 70.4 FPH.				
07:30	0.50	08:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6896-6904'. ROP 16 FPH.				
08:00	0.75	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6904-6991'. ROP 116 FPH.				
08:45	1.00	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6991-7001'. ROP 10 FPH.				
09:45	2.25	12:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7001-7085'. ROP 37.3 FPH.				
12:00	2.00	14:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7085-7100'. ROP 7.5 FPH.				
14:00	2.00	16:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7100-7161'. ROP 30.5 FPH.				
16:00		16:45	5	COND MUD & CIRC	CIRCULATE WHILE MIXING SLUG.				
16:45		20:30	6	TRIPS	FLOW CHECK, PUMP SLUG & POH FOR NEW BIT #2. TIGHT @ 6980, 5630 & 5130'.				
				-	CHECK MWD & BREAK OFF BIT.				
20:30	4.00	00:30	6	TRIPS	MAKE UP NEW BIT #2 & RIH. TIGHT AT 4360, 5233 & 7080'. WASH LAST 60' TO BOTTOM.				
00:30	1.00	01:30	2	DRILL ACTUAL	BREAK IN BIT & ROTATE DRILL 8 3/4 HOLE 7161-7180'. ROP 19 FPH.				
01:30	0.75	02:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7180-7186'. ROP 8 FPH.				
02:15	1.75	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7186-7274'. ROP 50.3 FPH.				
04:00	0.50	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7274-7279'. ROP 10 FPH.				
04:30	1.50	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7279-7345'. ROP 44 FPH.				
10_22	-22 CV	7/26/	2012 (06:00 - 7/27/2012 06:0	70				
API/UWI	-22 3A								
	0530000		tate/Province JT	.	ame Well Status Total Depth (ftKB) Primary Job Type n Altamont DRILLING 9,705.0 Drilling & Completion				
Time Lo					3,, 33.5 2.1111.13 3,, 33.5 2.1111.13 3				
Start Time	Dur (hr)	End Time	Code	Category	Com				
06:00	0.75	06:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7362-7377'. ROP 20 FPH.				
06:45	1.75	08:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7377-7462'. ROP 48.6 FPH.				
08:30	1.00	09:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7462-7472'. ROP 10 FPH.				
09:30	1.75	11:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7472-7557'. ROP 48.6 FPH.				
11:15	1.00	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7557-7567'. ROP 10 FPH.				
12:15	1.50	13:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7567-7651'. ROP 56 FPH.				
13:45	0.50	14:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.				
14:15		15:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7651-7661'. ROP 13.3 FPH.				
15:00		17:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7661-7745'. ROP 37.3 FPH. DRILLED W/ONE PUMP				
			_		(515 GPM) 7663-7691' (1 HR).				
17:15	0.75	18:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7745-7751'. ROP 8 FPH.				
18:00	1.50	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7751-7839'. ROP 58.7 FPH.				
19:30	1.00	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7839-7848'. ROP 9 FPH.				
20:30	1.50	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7848-7934'. ROP 57.3 FPH.				
22:00	1.00	23:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7934-7944'. ROP 10 FPH.				
23:00	1.25	00:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7944-8028'. ROP 67.2 FPH.				
00:15	1.50	01:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8028-8040'. ROP 8 FPH. INCREASE MW 8.8 TO 9.3 PPG DUE TO HIGH BGG.				
01:45	1.25	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8040-8122'. ROP 65.6 FPH.				
03:00		04:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8122-8136'. ROP 11.2 FPH.				
04:15	_	05:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8136-8216'. ROP 64 FPH.				
05:30		06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8216-8219'. ROP 6 FPH.				
	2-22 SA			06:00 - 7/28/2012 06:0					
API/UWI	LL UA		tate/Province						
	0530000		JT	1 '	n Altamont DRILLING 9,705.0 Drilling & Completion				
Time Lo	g	<u> </u>							
Start Time	Dur (hr)	End Time	Code	Category	Com				
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8219-8226'. ROP 14 FPH.				
06:30	3.25	09:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8226-8405'. ROP 55.1 FPH.				
09:45	1.00	10:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8405-8420'. ROP 15 FPH.				
10:45	1.25	12:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8420-8499'. ROP 63.2 FPH.				
12:00	1.00	13:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8499-8511'. ROP 12 FPH.				
13:00		14:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8511-8593'. ROP 46.9 FPH.				
14:45		15:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8693-8602'. ROP 18 FPH.				
15:15		16:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8602-8688'. ROP 57.3 FPH.				
16:45		17:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.				
10.40	0.50	17.13	<u> </u>	LODINION L KIG	INCOTINE INIC CENTICE.				



19:00

03:00

04:00

04:30

8.00 03:00

1.00 04:00

0.50 04:30

1.50 06:00

11

11

WIRELINE LOGS

WIRELINE LOGS

LUBRICATE RIG

TRIPS

				-						
Time Lo	g									
Start Time	Dur (hr)	End Time	Code		Category				Com	
17:15	0.50	17:45	2	DRILL A	ACTUAL		SLIDE DF	RILL 8 3/4 HOLE 8688-869	6'. ROP 16 FPH.	
17:45	1.25	19:00	2	DRILL A	CTUAL		ROTATE DRILL 8 3/4 HOLE 8696-8782'. ROP 68.8 FPH.			
19:00	1.00	20:00	2			SLIDE DRILL 8 3/4 HOLE 8782-8794'. ROP 12 FPH.				
20:00	1.25	21:15	2	DRILL ACTUAL F		ROTATE	DRILL 8 3/4 HOLE 8794-8	876'. ROP 65.6 FPH.		
21:15	0.75	22:00	2	DRILL A	ACTUAL		SLIDE DF	RILL 8 3/4 HOLE 8876-888	6'. ROP 13.3 FPH.	
22:00	1.00	23:00	2	DRILL A	ACTUAL			DRILL 8 3/4 HOLE 8886-8 G DUE TO HIGH GAS.	8971'. ROP 85 FPH. INC	REASING MW FROM 9.3
23:00	0.75	23:45	2	DRILL A	ACTUAL		SLIDE DF	RILL 8 3/4 HOLE 8971-898	6'. ROP 20 FPH.	
23:45	0.75	00:30	2	DRILL A	ACTUAL		ROTATE	DRILL 8 3/4 HOLE 8986-9	065'. ROP 105.3 FPH.	
00:30	0.75	01:15	2	DRILL A	ACTUAL		SLIDE DF	RILL 8 3/4 HOLE 9065-907	5'. ROP 13.3 FPH.	
01:15	0.75	02:00	2	DRILL A	ACTUAL		ROTATE	DRILL 8 3/4 HOLE 9075-9	159'. ROP 112 FPH.	
02:00	1.50	03:30	2	DRILL A	ACTUAL		SLIDE DE	RILL 8 3/4 HOLE 9159-917	'2'. ROP 8.7 FPH.	
03:30		04:30	2		ACTUAL		ROTATE	DRILL 8 3/4 HOLE 9172-9	254'. ROP 82 FPH.	
04:30		05:45	2		ACTUAL			RILL 8 3/4 HOLE 9254-926		
05:45		06:00	2		ACTUAL		ROTATE	DRILL 8 3/4 HOLE 9266-9 LOSSES OBSERVED.		REASING MW TO 10.2
_	-22 SA				- 7/29/2012	12 06:00				
API/UWI	0530000		State/Provinc	е	County	Field Name		Well Status	Total Depth (ftKB)	Primary Job Type Did Drilling & Completion
Time Lo		L	JT			South Al	llamont	DRILLING	9,705.0	Dilling & Completion
Start Time	Dur (hr)	End Time	Code		Category				Com	
06:00	, ,	06:45	2	DRILL A	ACTUAL		ROTATE	DRILL 8 3/4 HOLE 9280-9		
06:45	0.75	07:30	2	DRILL A	CTUAL		SLIDE DE	RILL 8 3/4 HOLE 9348-935	8'. ROP 13.3 FPH.	
07:30		08:45	2		CTUAL			DRILL 8 3/4 HOLE 9358-9		
08:45	0.50	09:15	2	DRILL A	CTUAL		SLIDE DE	RILL 8 3/4 HOLE 9443-945	3'. ROP 20 FPH.	
09:15		10:15	2	DRILL A				DRILL 8 3/4 HOLE 9453-9		
10:15		10:45	2	DRILL A				RILL 8 3/4 HOLE 9537-954		
10:45		12:00	2		ACTUAL		ROTATE	DRILL 8 3/4 HOLE 9546-9 DUE TO HIGH BGG.		ICREASE MW 10.2 TO
12:00	1 00	13:00	2	DRILL A	CTUAL			RILL 8 3/4 HOLE 9632-964	3' ROP 11 FPH	
13:00		13:30	2		ACTUAL			DRILL 8 3/4 HOLE 9643-9		
13:30		15:30	5		MUD & CIRC		CIRCULA	TE UP LAST SAMPLE, P OMS UP. PUMP SLUG.		SWEEP & CIRCULATE 1
15:30	8.00	23:30	6	TRIPS				SHOE. NO TIGHT HOLE @ 7430'. WASH 9630-970		@ 3500 & 5130'. FILL
23:30	5.00	04:30	5	COND	MUD & CIRC			BBL HIVIS/LCM SWEEP HIGH (5000+ U) GAS. PU		E MUD WT TO 11.4 PPG
04:30	1.50	06:00	6	TRIPS			POH TO	LOGTO 4180'		
10-22	-22 C A	7/20/	2012 (16.00	- 7/30/2012	06:00				
API/UWI	-ZZ 3A		ZUIZ (State/Province		- //30/2012 County	Field Name		Well Status	Total Depth (ftKB)	Primary Job Type
	0530000		JT	е	County	South Al		DRILLING		Drilling & Completion
Start Time	Dur (hr)	End Time	Code		Category				Com	
06:00		10:00	6	TRIPS	22.090.7		POH TO	OG. LAY DOWN SPERF		FLOOR.
10:00		11:30	11		NE LOGS			SM W/LOGGERS & RIG U		
11:30		18:15	11		NE LOGS			LOGGER'S TD 9705'. TR		
18:15	0.75	19:00	11	WIRELI	NE LOGS		LAY DOW	/N TRIPLE COMBO & MA	KE UP XRMI/SONIC.	

RIG DOWN LOGGERS.

ROUTINE RIG SERVICE.

ROLLED ALL PUMP LINERS & REPLACED FLUID END PARTS NEEDED.

RUN #2: XRMI 9705-7900' & SONIC 9705-SHOE.

MAKE UP USED 8 3/4 BIT & BIT SUB & RIH TO 2300'.

TOAS ROAW 5-22

CONFIDENTIAL 43 013 51053

From:

HP 319 <hp319@bbccontractors.com>

To:

"caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov"...
Brent Murphy <BMurphy@billbarrettcorp.com>, Tracey Fallang <tfallang@bil...

CC: Date:

8/7/2012 5:46 PM

Subject:

Notice for Run/Cement 5" Liner

Ladies & Gentlemen,

10-12-22 South ALTOMORY

Please be advised that Bill Barrett Corp will be running & cementing a 5" liner in \$\frac{8}{4}\text{Ramont 10-22-22}\text{ beginning approximately 16:30 hrs, 8/8/12. The liner top will have both positive & negative tests done on it.

Regards, Glenn Randel BBC Rep H&P 319

RECEIVED
AUG 08 2012

DIV. OF OIL, GAS & MINING

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ	G	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly dee eenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		IONE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: 2	IIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Meridia	n: U	STATE: UTAH
11. CHEC	APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
BBC hereby reques	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all posts to flare the subject well until sing. See additional details attain	il the October board	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: September 05, 2012 By:
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst	
SIGNATURE N/A		DATE 9/5/2012	

On September 2nd, 2012 the 10-22-22 SA began initial flowback from the Lower Wasatch. BBC is testing completion techniques that have been successful in the Wasatch in BBC's fields to the west. This is an exploratory oil well test south of Roosevelt. BBC is determining if continued drilling should proceed.

The first three days of production have been:

9-2-12 0 BO, 77 MCF, 1,759 BW

9-3-12 22 BO, 498 MCF, 1,418 BW

9-4-12 88 BO, 746 MCF, 848 BW

Since initial completion the well has produced 1321 MCF in 3 days. BBC will request an additional 30 day no more than 50 MMCF gas flaring approval before the 3000 MCF is reached. BBC will be filing a request for a Flaring Hearing on the October 06, 2012 meeting.

The well is just beginning to cut oil. It is critical to continue flow testing the well to prevent any formation damage and determine oil productivity. The well has recovered 4,025 bbls of 16,184 bbls of fracture fluid. Shutting in the well so soon after the initial completion could cause a reduction in the long term ultimate recovery by dehydration of the gelled hydraulic fracture fluid still in the formation and crushing of the proppant in the hydraulic fractures given the apparent overpressure in the lower Wasatch. Both could result in a reduction in productivity.

Pipeline was to be on location before completion but negotiations with the pipeline company and land owners has delayed initial construction. Negotiations with the pipeline company along with alternatives are continuing.

	STATE OF UTAH		FORM 9				
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee				
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT				
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013510530000				
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		DNE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL			COUNTY: DUCHESNE				
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: 2	IIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Meridian	: U	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
_	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
 	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	water shutoff	SI TA STATUS EXTENSION	APD EXTENSION				
8/31/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
August 2012	COMPLETED OPERATIONS. Clearly show all pe 2 monthly drilling activity repor		epths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 07, 2012				
Megan Finnegan	303 299-9949	Permit Analyst					
SIGNATURE N/A		DATE 9/4/2012					



	2-22 SA			6:00 - 8/2/2012				
API/UWI 4301351	10530000		State/Provin JT	ce County	Field Name South Altai	mont	Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion
Time Lo		<u>l</u>	<u> </u>	I	Codii 7 iidi	HOIR	1001111 2211011	12,001.0 Driving a completion
Start Time	,	End Time		Category				Com
6:00	1.00	07:00	6	TRIPS			(ING UP 4" DP TO 140	
7:00	1	08:00	6	TRIPS			P SPERRY REPEATER	
00:80	2.00	10:00	6	TRIPS			(ING UP 4" DP TO 239	9' & FILL STRING.
10:00	0.50	10:30	7	LUBRICATE RIG			RIG SERVICE.	
10:30	8.00	18:30	6	TRIPS	R	IH PICK	(ING UP 4" DP TO 959	90'. TAG UP.
18:30	0.50	19:00	3	REAMING				AT COLLAR @ 9600'. CIRC 10 MIN.
19:00	0.25	19:15	15	TEST B.O.P	CI	LOSE A	NNULAR PREVENTE	R & TEST CASING TO 1500 PSI FOR 10 MIN.
19:15	1.25	20:30	3	REAMING	D	RILL OL	JT SHOE TRACK & C	LEAN OUT RATHOLE TO 9705'.
20:30	0.25	20:45	2	DRILL ACTUAL	D	RILL 10	OF 6 1/8 HOLE 9705	-9715'.
20:45	0.75	21:30	22	OPEN	-		MIN, CLOSE ANNULA PSI SURFACE PRESS	R PREVENTER & PERFORM FIT TO 13.5 PPG URE. MW 11.2 PPG.
21:30	1.25	22:45	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 97	15-9788'. ROP 58.4 FPH.
22:45	1.50	00:15	2	DRILL ACTUAL	SI	LIDE DF	RILL 6 1/8 HOLE 9788	-9801'. ROP 8.7 FPH.
00:15		01:30	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 98	01-9882'. ROP 64.8 FPH.
01:30	0.50	02:00	2	DRILL ACTUAL	SI	LIDE DF	RILL 6 1/8 HOLE 9882	-9888'. ROP 12 FPH.
02:00		06:00	2	DRILL ACTUAL		OTATE 000+ U I		88-10056'. ROP 42 FPH. MW 11.4 PPG DUE TO
					н	ELD BO	P DRILL, 45 SEC RES	SPONSE.
	2-22 SA	8/2/2	012 0	6:00 - 8/3/2012	2 06:00			
API/UWI	1050000		State/Provin	ce County	Field Name		Well Status	Total Depth (ftKB) Primary Job Type
Time Lo	10530000		JT		South Altai	mont	COMPLETION	12,907.0 Drilling & Completion
Start Time		End Time	Code	Category				Com
06:00	. ,	08:00	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 10	056-10167'. ROP 55.5 FPH.
08:00	0.50	08:30	2	DRILL ACTUAL	SI	LIDE DF	RILL 6 1/8 HOLE 1016	7-10173'. ROP 12 FPH.
08:30	5.25	13:45	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 10	173-10450'. ROP 52.8 FPH.
13:45	1.00	14:45	2	DRILL ACTUAL	-	LIDE DF PG.	RILL 6 1/8 HOLE 1045	0-10460'. ROP 10 FPH. INCREASE MW TO 11.7
14:45	2.00	16:45	2	DRILL ACTUAL		OTATE PG.	DRILL 6 1/8 HOLE 10	460-10551'. ROP 45.5 FPH. INCREASE MW TO 11.9
16:45	0.50	17:15	7	LUBRICATE RIG	R	OUTINE	RIG SERVICE.	
17:15	1.50	18:45	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 10	551-10638'. ROP 58 FPH.
18:45	1.75	20:30	2	DRILL ACTUAL	SI	LIDE DF	RILL 6 1/8 HOLE 1063	8-10646'. ROP 4.6 FPH.
20:30	2.00	22:30	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 10	646-10733'. ROP 43.5 FPH.
22:30	1.00	23:30	2	DRILL ACTUAL	SI	LIDE DF	RILL 6 1/8 HOLE 1073	3-10740'. ROP 7 FPH.
23:30	4.25	03:45	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 10	740-10922'. ROP 42.8 FPH.
03:45		04:30	2	DRILL ACTUAL	SI	LIDE DF	RILL 6 1/8 HOLE 1092	2-10927'. ROP 6.7 FPH.
04:30		06:00	2	DRILL ACTUAL	R	OTATE	DRILL 6 1/8 HOLE 10	927-10986'. ROP 39.3 FPH.
10-22	2-22 SA	8/3/2	012 0	6:00 - 8/4/2012	2 06:00			
API/UWI 4301351	10530000		State/Provin JT	County	Field Name South Altar	mont	Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion
Time Lo								
Start Time 06:00		End Time	Code 2	DRILL ACTUAL	Di	OTATE	DRILL 6 1/8 HOLE 10	Com 986-11207'. ROP 26.8 FPH. INCREASE MW TO 13.2
00.00	0.23	17.13	[DIVILL ACTUAL		PG.	DIVILLE O 1/O FIOLE 10	300 11207 . NOT 20.01111. INCINEMOL WWW TO 13.2
14:15	0.50	14:45	7	LUBRICATE RIG			RIG SERVICE.	
14:45		19:00	2	DRILL ACTUAL				207-11304'. ROP 22.8 FPH.
19:00		20:00	20	DIRECTIONAL WORK	ТІ		ESHOOT MWD COMM	MS PROBLEM. MWD NOT COMMUNICATING
20:00	3.75	23:45	2	DRILL ACTUAL				304-11428'. ROP 33.1 FPH.
23:45		01:00	5	COND MUD & CIRC	C	HECKE		SLIGHT FLOW. CIRCULATE & INCREASE MW TO
01:00	2.25	03:15	2	DRILL ACTUAL				428-11489'. ROP 27.1 FPH.
03:15		04:00	2	DRILL ACTUAL				9-11496'. ROP 9.3 FPH.
		06:00	2	DRILL ACTUAL				496-11571'. ROP 37.5 FPH.
04:00							DIVILL O 1/0 HOLE	7:00 F 1 100 F 1 100 F 101 10 F 101 10 F 101 10 10 10 10 10 10 10 10 10 10 10 10

B	Bill	Barrett	Corporation
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API/UWI			State/Provin	6:00 - 8/5/2012 ce	Field Name		Well Status	Total Depth (ftKB) Primary Job Type			
4301351	0530000		JT	ce County	South Alt		COMPLETION	12,907.0 Drilling & Completion			
ime Lo		I = 1 = 1									
Start Time 06:00	Dur (hr) 6.50	End Time 12:30	Code 2	DRILL ACTUAL		ROTATE	DRILL 6 1/8 HOLF 115	Com 71-11774'. ROP 31.2 FPH. MAINTAIN 13.7 PPG			
0.00	0.00	12.00		DIVILE / 10 F G/ LE		MW.	511122 0 1/011022 1101				
2:30		13:00	7	LUBRICATE RIG			E RIG SERVICE.				
3:00		21:00	2	DRILL ACTUAL	,	AT GAS I	PEAKS. MW 13.7-13.8				
21:00	0.75	21:45	2	DRILL ACTUAL			RILL 6 1/8 HOLE 11963-				
21:45	8.25	06:00	2	DRILL ACTUAL	1.5	ROTATE AT GAS I		68-12205'. ROP 28.7 FPH. INTERMITTENT FLAF			
10-22 PI/UWI	2-22 SA			6:00 - 8/6/2012			Twell Out				
	0530000		State/Provin JT	ce County	Field Name South Alt		Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion			
ime Lo					100000000000000000000000000000000000000						
Start Time	Dur (hr)	End Time		Category				Com			
06:00		07:30	2	DRILL ACTUAL				05-12245'. ROP 26.7 FPH.			
)7:30		09:00	2	DRILL ACTUAL			RILL 6 1/8 HOLE 12245-				
9:00		13:00	2	DRILL ACTUAL				53-12340'. ROP 21.8 FPH.			
13:00		14:00	5	COND MUD & CIRC			ATE, MIX SLUG, SURVE				
4:00	5.50	19:30	6	TRIPS			HECK, PUMP SLUG & P CHANGE FROM STRAF	OH (STRAP OUT) FOR NEW BIT #5. BREAK OF P.			
9:30		00:45	6	TRIPS			P NEW BIT #5 & RIH TO	SHOE.			
0:45	0.75	01:30	9	CUT OFF DRILL LINE	;	SLIP/CU	T 80' DRILLING LINE.				
1:30	1.00	02:30	6	TRIPS	[1	RIH & PRECAUTIONARY WASH 12260-TD. NO FILL.					
2:30	0.50	03:00	7	LUBRICATE RIG	1	ROUTINE RIG SERVICE.					
3:00	3.00	06:00	2	DRILL ACTUAL	I	ROTATE	DRILL 6 1/8 HOLE 1234	40-12450'. ROP 36.7 FPH.			
10-22	-22 SA	8/6/2	012 0	6:00 - 8/7/2012	06:00						
API/UWI			State/Provin		Field Name		IW. II Or	Total Depth (ftKB) Primary Job Type			
	0530000		JT		South Alt		Well Status COMPLETION	12,907.0 Drilling & Completion			
1301351 Fime Lo			JT								
1301351 Fime Lo Start Time	Dur (hr)	End Time	Code	Category	South Alt	amont	COMPLETION	12,907.0 Drilling & Completion			
Fime Lo Start Time 06:00	Dur (hr) 6.75	End Time 12:45	Code 2	DRILL ACTUAL	South Alt	ROTATE	DRILL 6 1/8 HOLE 1245	12,907.0 Drilling & Completion			
1301351 Fime Lo Start Time 06:00 12:45	Dur (hr) 6.75 0.50	End Time 12:45 13:15	Code 2	DRILL ACTUAL LUBRICATE RIG	South Alt	ROTATE	DRILL 6 1/8 HOLE 1245	12,907.0 Drilling & Completion Com 50-12623'. ROP 25.6 FPH.			
1301351 Fime Lo Start Time 16:00 2:45 3:15	Dur (hr) 6.75 0.50	End Time 12:45 13:15 00:00	Code 2 7 2	DRILL ACTUAL LUBRICATE RIG DRILL ACTUAL	South Alt	ROTATE ROUTINE	DRILL 6 1/8 HOLE 1245 E RIG SERVICE. DRILL 6 1/8 HOLE 1262	12,907.0 Drilling & Completion Com 50-12623'. ROP 25.6 FPH. 23-12900'. ROP 25.8 FPH.			
1301351 Fime Lo Start Time 16:00 2:45 3:15	Dur (hr) 6.75 0.50	End Time 12:45 13:15	Code 2	DRILL ACTUAL LUBRICATE RIG	South Alt	ROTATE ROUTINE ROTATE PUMP 20 POSITIVI	DRILL 6 1/8 HOLE 1245 E RIG SERVICE. DRILL 6 1/8 HOLE 1262 D BBL SUPER SWEEP 8	12,907.0 Drilling & Completion Com 50-12623'. ROP 25.6 FPH. 23-12900'. ROP 25.8 FPH. 4 CIRCULATE 1 1/2 BOTTOMS UP. FLOW CHECATING INCREASE MUD WT TO 13.9 PPG. FLOW			
301351 Fime Lo Start Time 06:00 2:45 3:15 00:00	Dur (hr) 6.75 0.50 10.75 3.75	End Time 12:45 13:15 00:00	Code 2 7 2	DRILL ACTUAL LUBRICATE RIG DRILL ACTUAL	South Alt	ROTATE ROUTINE ROTATE PUMP 20 POSITIVI CHECK =	DRILL 6 1/8 HOLE 1245 E RIG SERVICE. DRILL 6 1/8 HOLE 1262 DBBL SUPER SWEEP 8 E. CONTINUE CIRCULA = NEGATIVE. PUMP SL	12,907.0 Drilling & Completion Com 50-12623'. ROP 25.6 FPH. 23-12900'. ROP 25.8 FPH. 4 CIRCULATE 1 1/2 BOTTOMS UP. FLOW CHECATING INCREASE MUD WT TO 13.9 PPG. FLOW			
301351 ime Lo Start Time 6:00 2:45 3:15 00:00	Dur (hr) 6.75 0.50 10.75 3.75	End Time 12:45 13:15 00:00 03:45 06:00 8/7/2	Code 2 7 2 5 6 012 0	DRILL ACTUAL LUBRICATE RIG DRILL ACTUAL COND MUD & CIRC TRIPS 6:00 - 8/8/2012	South Alt	ROTATE ROUTINE ROTATE PUMP 20 POSITIVI CHECK = SHORT 1	DRILL 6 1/8 HOLE 1245 E RIG SERVICE. DRILL 6 1/8 HOLE 1265 DBBL SUPER SWEEP 8 E. CONTINUE CIRCULS NEGATIVE. PUMP SL	Com 50-12623'. ROP 25.6 FPH. 23-12900'. ROP 25.8 FPH. 3 CIRCULATE 1 1/2 BOTTOMS UP. FLOW CHEC ATING INCREASE MUD WT TO 13.9 PPG. FLOW UG. TO TD. NO HOLE TROUBLE.			
301351 ime Lo start Time 6:00 2:45 3:15 0:00 3:45 10-22 PI/UWI 301351	Dur (hr) 6.75 0.50 10.75 3.75 2.25 2-22 SA 0530000	End Time 12:45 13:15 00:00 03:45 06:00 8/7/2	Code 2 7 2 5 6	DRILL ACTUAL LUBRICATE RIG DRILL ACTUAL COND MUD & CIRC TRIPS 6:00 - 8/8/2012	South Alt	ROTATE ROUTINE ROTATE PUMP 20 POSITIVI CHECK = SHORT 1	DRILL 6 1/8 HOLE 1245 E RIG SERVICE. DRILL 6 1/8 HOLE 1262 DBBL SUPER SWEEP 8 E. CONTINUE CIRCULA = NEGATIVE. PUMP SL	Com 50-12623'. ROP 25.6 FPH. 23-12900'. ROP 25.8 FPH. 3 CIRCULATE 1 1/2 BOTTOMS UP. FLOW CHEC ATING INCREASE MUD WT TO 13.9 PPG. FLOW UG.			
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1301351 Fime Lo Start Time 16:00 12:45 13:15 10:00 13:45 110-22 140-23 15:00:00 16:30 16:45 18:15	9 Dur (hr) 6.75 0.50 10.75 2.25 2-22 SA 0530000 9 Dur (hr) 0.50 0.25 1.50 7.50	End Time 12:45 13:15 00:00 03:45	Code 2 7 2 5 5 6 O12 0 O12 O O O O O O O O O	DRILL ACTUAL LUBRICATE RIG DRILL ACTUAL COND MUD & CIRC TRIPS 6:00 - 8/8/2012 Ce County REAMING DRILL ACTUAL COND MUD & CIRC	South Alt 2 06:00 Field Name South Alt	ROTATE ROUTINE ROTATE PUMP 20 POSITIVI CHECK = SHORT 1 PRECAU ROTATE PUMP 20 FLOW CI	COMPLETION DRILL 6 1/8 HOLE 1245 E RIG SERVICE. DRILL 6 1/8 HOLE 1262 DBL SUPER SWEEP 8 E. CONTINUE CIRCULA NEGATIVE. PUMP SL FRIP TO SHOE & BACK Well Status COMPLETION TIONARY WASH 90' TO DRILL 6 1/8 HOLE 1290 DBL SUPER SWEEP 8	Total Depth (ftKB) Total Depth (ftKB) Com Com Total Depth (ftKB) DTD. Com Com Com Com Com Com Com Co			
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ime Lo											
tart Time 6:00	Dur (hr)	End Time 09:45	Code 6	TRIPS	Category		TRIP IN	HOLF FILL @ 4700 750	Com 0 10500		
9:45		12:15	5	_	MUD & CIRC		TRIP IN HOLE FILL @ 4700, 7500, 10500 CIRC. PUMP SUPER SWEEP, FLOW CHECK				
2:15		18:45	6	TRIPS				RIFT, STAND BACK 102		N 28 STD AND BHA.	
8:45		19:15	7		CATE RIG			<u> </u>			
9:15		01:00	12		ASING & CEMENT		RIG SERVICE, HSM, RIG UP KIMZEY CASING, RUN LINER. FC (1.79), 2 SHOE JTS (87.13), FC (1.75), LAND COLLAR (2.00) 75 JTS HCP110 18# ULTRA FLUSH JT. (3307.27), LINER HANGER (26.25) SETING HEAD (12.50). RIG DN CASING CREW.				
1:00	5.00	06:00	6	TRIPS			TIH W/ L	INER RUNNING 90'/MIN	· · ·		
0-22	2-22 SA	8/9/2	012 0	6.00 -	8/10/2012 (16·00					
PI/UWI	-ZZ OA		State/Province		County	Field Nam	e	Well Status	Total Depth (fi	tKB) Primary Job Type	
	0530000		UT		,	South A		COMPLETION	1 3 tal. 2 3 p iii (ii	12,907.0 Drilling & Completion	
ime Lo											
art Time	, ,	End Time 07:30	Code 12	DUNC	Category		TILLMA	INER 100 STDS AND SI	Com	TOM	
6:00					ASING & CEMENT						
7:30		09:15	5		MUD & CIRC			OTTOMS COND F/ CEM			
9:15		13:30 14:15	21	OPEN OPEN		FIX O R		EST LEAKING C	OUT OF O RING. L/D WO PARTS		
4:15		15:30	12		ACINIC & CEMENT		_		ACED ME CKC	CLIAL CUEM 45 0# 4 52 VEILD	
4:15	1.25	15:30	12	RUN CASING & CEMENT		DISPAC		VATER W/ BIOC	S HALCHEM 15.8# 1.53 YEILD FIDE AND 91 BLS DRILLING MUI		
5:30	5.25	20:45	12	RUN C	RUN CASING & CEMENT		DROP BALL, RUPTUR DISK, SET LINER, PULLTEST 60K OVER, RELEASE LINER, DISPLACE CEMENT, CLOSE PIPE RAMS TEST HANGER TO 2000# F/ 20 MINS. DISPLACE ABOVE LINER HANGER W/ 2% KCL AND BIOCIDE.MONITOR WELL F/FLOW F/ 30 MINS. RIG DN HES.				
0:45	5.50	02:15	6	TRIPS			LDDP A	ND SETTING HEAD			
2:15	3.75	06:00	14	NIPPLE	UP B.O.P		NIPPLE	DN BOP, NU/ TUBING H	EAD. CLEAN M	JD TANKS	
0-22	-22 SA	8/10/	2012	06:00	- 8/11/2012	06:00					
PI/UWI						00.00	<i>'</i>				
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Sundry Number: 29536 API Well Number: 43013510530000 **Bill Barrett Corporation** Time Log Dur (hr) Start Time End Time Code Category 11:30 1.50 13:00 GOP General Operations R/U POWER SWIVEL & CIRC EQUIPMENT. SWIFN. 11.00 00:00 LOCL Lock Wellhead & Secure WELL SHUT IN & SECURE. CREW TRAVEL. 13:00 10-22-22 SA 8/20/2012 00:00 - 8/21/2012 06:00 State/Province County Well Status Total Depth (ftKB) Primary Job Type 43013510530000 UT South Altamont COMPLETION 12,907.0 Drilling & Completion Time Log Category Start Time Dur (hr) End Time Code 00:00 1.00 01:00 CTRL Crew Travel CREW TRAVEL. HOLD SAFETY MEETING. RIH F/ TOP OF 5" LINER TOP @ 9466' W/ 4-1/8 BIT P/U NEW 2-7/8 TBG. TAG CMT 01:00 2.50 03:30 RUTB Run Tubing @ 12.772'. R/U POWER SWIVEL. BREAK CIRC. C/O CMT TO FLOAT COLLAR @ 12,802. C/O 03:30 4.00 07:30 CLN Clean Out Hole CMT TO 12,847'. CIRC WELL CLEAN. R/D SWIVEL. PULT POOH W/ BIT L/D 2-7/8 TBG. SDFN 07:30 6.00 13:30 Pull Tubing WELL SHUT IN & SECURE. CREW TRAVEL. 13:30 10.50 00:00 LOCL Lock Wellhead & Secure 10-22-22 SA 8/21/2012 06:00 - 8/22/2012 06:00 API/UWI State/Province Well Status Total Depth (ftKB) Primary Job Type 43013510530000 IJΤ South Altamont COMPLETION 12,907.0 Drilling & Completion Time Log Start Time Dur (hr) End Time Code Category Com CREW TRAVEL. HOLD SAFETY MEETING. 06:00 1.00 07:00 CTRL Crew Travel N/D BOP. N/U NITE CAP. 07:00 1.00 08:00 **IWHD** Install Wellhead R/D RIG & EQUIPMENT. MOVE TBG TO OUTER EDGE OF LOCATION. 08:00 2.00 10:00 SRIG Rig Up/Down WELL SHUT IN & SECURE. ROAD RIG TO 15-10-36. 10:00 20.00 06:00 10-22-22 SA 8/24/2012 06:00 - 8/25/2012 06:00 Well Status Primary Job Type Total Depth (ftKB) 43013510530000 UT South Altamont COMPLETION 12,907.0 Drilling & Completion Time Log Dur (hr) Start Time End Time Code Com Category General Operations Production Crew Working On Facilities. 06:00 24.00 06:00 GOP Start Setting Frac Line. 8/25/2012 06:00 - 8/26/2012 06:00 10-22-22 SA API/UWI Well Status State/Province County Total Depth (ftKB) Primary Job Type 43013510530000 UT South Altamont COMPLETION 12,907.0 Drilling & Completion Time Log Start Time Dur (hr) End Time Code Category Com GOP General Operations Finish Setting Frac Line. 06:00 24.00 06:00 Start Filling Frac Line. 10-22-22 SA 8/26/2012 06:00 - 8/27/2012 06:00 API/UWI Well Status otal Depth (ftKB) rimary Job Type 43013510530000 UT South Altamont COMPLETION 12,907.0 Drilling & Completion Time Log Start Time Dur (hr) End Time Code Com Category 24.00 06:00 GOP General Operations Filling Frac Line 06:00 10-22-22 SA 8/27/2012 06:00 - 8/28/2012 06:00 API/UWI Well Status Total Depth (ftKB) rimary Job Type 43013510530000 UT South Altamont COMPLETION 12,907.0 Drilling & Completion Time Log Dur (hr) End Time Code Com Category 24.00 06:00 GOP General Operations Con't Filling Frac Line. Set Open Tops. Rig Up FlowBack And SandTrap.

Start Time 06:00 Set Frac Tree. Test Casing.

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	ATATE ACUITAN		FORM 9
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURC	ES	
1	DIVISION OF OIL, GAS, AND MIN	ING	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 03 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Merio	dian: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
9/26/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	_		
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
This well had first o	COMPLETED OPERATIONS. Clearly show a pil sales on 9/26/2012. This until the pipeline can be con	well is currently flaring	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 02, 2012
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBI 303 312-8172	ER TITLE Senior Permit Analyst	
SIGNATURE N/A		DATE 10/1/2012	

	STATE OF UTAH			FORM 9
1	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M		3	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORTS	ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: 2	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Me	eridian:	U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	ATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show 12 monthly drilling activity	C	_	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Depths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 02, 2012
NAME (PLEASE PRINT)	PHONE NUM	IBER	TITLE Provide Associated	
Megan Finnegan SIGNATURE N/A	303 299-9949		Permit Analyst DATE 10/2/2012	



09:45

0.33 10:05

GOP

General Operations

10-22-22 SA	9/1/2012 06:00	- 9/2/2012 06:00
10-22-22 37	31 11 20 12 00.00	- <i>31212</i> 012 00.00

					Field Name	I	Well Status	Total Depth (ftKB) Primary Job Type
4301351	0530000		JT		South Altar		PRODUCING	12,907.0 Drilling & Completion
Time Lo	•							
Start Time 06:00	, ,	End Time 06:00	LOCL	Lock Wellhead & Secure			On Location At 0500 F si., Ran QC On Fluid, L	Hrs., Prime Chemical And Fluid Pumps, Pressure Test Looks Good.
06:00	0.00	06:00	SMTG	Safety Meeting			eting. Talk About Smok ation, And Red Zone.	ring Area, PPE, Escape And Mustering Areas,
06:00	1.25	07:15	FRAC	Frac. Job	Fr Op Br Pr Gr St Or St Or St Or St Or St	rac Stage pen Well roke Dow ump 390 et Stabili G 49/5 on't With rage Into a Perfs, tage	e 1. Fluid System: Hybo , 24 Psi. ICP. n At 9.8 Bpm And 6,84 0 Gals. 15% HCL And zed Injection Of 54.4 B 1 Holes. SlickWater Pad, 36,39 1# 100 Mesh, 64.5 Bpi 64.5 Bpm At 7,135 Psi. 1# 20/40 Versa Prop, 6 65.9 Bpm At 6,368 Psi. 2# 20/40 Versa Prop, 6 66.1 Bpm At 6,470 Psi. 2.5# 20/40 Versa Prop, 6 66.2 Bpm At 6,314 Psi. 3# 20/40 Versa Prop, 6 66.0 Bpm At 6,197 Psi. 3.5# 20/40 Versa Prop, 6 66.0 Bpm At 6,751 Psi.	7 Psi 102 Bio Balls, Attempt BallOut. Let Balls Fall. 104 Bio Balls, Attempt BallOut. Let Balls Fall. 105 Bio Balls, Attempt BallOut. Let Balls Fall. 105 Bio Balls, Get ISIP, 6,062 Psi 1.15 Psi./Ft. 107 Gals 108 Gals 109 Gals 119 Gals 110 Gals 110 Gals 111 Gals 111 Gals 111 Gals 112 Gals 113 Gals 113 Gals 113 Gals 114 Gals 115 Psi./Ft 116 Psi./Ft 117 Gals 118 Gals 119 Gals 119 Gals 119 Gals 119 Gals 110 Gals 110 Gals 110 Gals 110 Gals 111 Gals 111 Gals 111 Gals 111 Gals 111 Gals 111 Gals 112 Gals 113 Gals 113 Gals 114 Gals 115 Psi./Ft 115 Psi./Ft 115 Psi./Ft 115 Psi./Ft 115 Psi./Ft 116 Psi./Ft 117 Gals 118 Gals 119 Gals 110
					F. To To B\ M: A\ M:	G WSI otal 100 I otal 20/40 otal Clea WTR - 4, ax. Rate vg. Rate ax. Psi	Flush, Flush 15 Bbls. (And Secured. Mesh - 21,400#) 0 White - 156,200# 1 - 163,596 Gals 11 Bbls. 66.3 Bpm 60.7 Bpm 7,530 Psi. 6,764 Psi.	Over Bottom Perf Get ISDP, 6,058 Psi 1.15 Psi./Ft.
07:15	0.59	07:50	CTUW	W/L Operation		ell Turne Well Pr		Pick Up Gun String And CBP Plug Assembly. Equalize
07:50	1.92	09:45	PFRT	Perforating	Gi Di Cc Cl Fc Di Pe	un Configua. Holes orrelating BL/CCL I bund Androp Dowrerforate St	To HES Spectral Den Dated 08/15/2012. I Correlated To Joint A To Depth, Set CFP At Stage 2 North Horn/CR	Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 sity/Dual Spaced Neutron Dated 08/07/2012 And SLB

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Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.



Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
10:05		11:45	FRAC	Frac. Job	Frac Stage 2. Fluid System: Hybor G 22 Open Well, 5413 Psi. ICP. BrokeDown At 10.0 Bpm And 6,365 Psi Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 65.7 Bpm And 6,703 Psi., Get ISIP, 5,510 Psi 1.09 Psi./Ft. F.G 45/45 Holes. Con't With SlickWater Pad, 34,595 Gals Stage Into 1# 100 Mesh, 64.1 Bpm At 6,663 Psi On Perfs, 70.6 Bpm At 6,883 Psi., 20,702 Gals. Stage Into 1# 20/40 Versa Prop, 70.1 Bpm At 6,834 Psi On Perfs, 69.6 Bpm At 6,450 Psi., 5,896 Gals. Stage Into 2# 20/40 Versa Prop, 70.1 Bpm At 6,783 Psi On Perfs, 69.9 Bpm At 6,263 Psi., 12,670 Gals. Stage Into 2.5# 20/40 Versa Prop, 69.8 Bpm At 6,420 Psi On Perfs, 71.7 Bpm At 6,119 Psi., 23,450 Gals. Stage Into 3# 20/40 Versa Prop, 71.7 Bpm At 6,130 Psi On Perfs, 71.7 Bpm At 6,001 Psi., 13,627 Gals. Stage Into 3.5# 20/40 Versa Prop, 71.8 Bpm At 6,077 Psi On Perfs, 72.2 Bpm At 6,545 Psi., 7,177 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf Get ISDP, 5,580 Psi 1.10 Psi./Ft. F.G. WSI And Secured. Total 100 Mesh - 20,600# Total 20/40 White - 150,400# Total Clean - 158,423 Gals BWTR - 3,943 Bbls. Max. Rate - 71.8 Bpm Avg. Rate - 66.0 Bpm Max. Psi 7,525 Psi. Avg. Psi 6,482 Psi.
11:45	0.50	12:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
12:15		13:45	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/07/2012 And SLB CBL/CCL Dated 08/15/2012. Found And Correlated To Liner Top. Drop Down To Depth, Set CFP At 12,296', Well Psi 5,600 Psi Perforate Stage 3 CR - 6 Zone, 12,106 - 12,278'. 42 Holes. Well Psi 5,600 Psi POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
13:45	0.42	14:10	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.

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Time Lo					
Start Time	Dur (hr)	End Time	Code	Category	Com
14:10	, ,	15:45	FRAC	Frac. Job	Frac Stage 3. Fluid System: Hybor G 22 Open Well, 5337 Psi. ICP. BrokeDown At 9.0 Bpm And 5,457 Psi Pump 3900 Gals. 15% HCL And 84 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 50.0 Bpm And 7,165 Psi., Get ISIP, 5,433 Psi 1.08 Psi./Ft. F.G 24/42 Holes. Con't With SlickWater Pad, 34,535 Gals Stage Into 1# 100 Mesh, 52.6 Bpm At 7,201 Psi On Perfs, 60.3 Bpm At 6,287 Psi., 20,686 Gals. Stage Into 1# 20/40 Versa Prop, 70.4 Bpm At 6,378 Psi On Perfs, 71.4 Bpm At 5,986 Psi., 5,775 Gals. Stage Into 2# 20/40 Versa Prop, 71.0 Bpm At 6,304 Psi On Perfs, 71.7 Bpm At 5,821 Psi., 12,452 Gals. Stage Into 2.5# 20/40 Versa Prop, 71.3 Bpm At 5,963 Psi On Perfs, 71.6 Bpm At 5,670 Psi., 23,763 Gals. Stage Into 3# 20/40 Versa Prop, 71.5 Bpm At 5,691 Psi On Perfs, 71.6 Bpm At 5,641 Psi., 13,458 Gals. Stage Into 3.5# 20/40 Versa Prop, 71.7 Bpm At 5,675 Psi On Perfs, 69.0 Bpm At 6,243 Psi., 7,013 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf Get ISDP, 5,505 Psi 1.09 Psi./Ft. F.G WSI And Secured. Total 100 Mesh - 20,600# Total 20/40 White - 150,100# Total 20/40 White - 150,100# Total Clean - 157,499 Gals BWTR - 4,268 Bbls. Max. Rate - 71.7 Bpm Avg. Rate - 61.3 Bpm Max. Psi 7,499 Psi. Avg. Psi 6,369 Psi.
15:45		16:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
16:15		19:10	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/07/2012 And SLB CBL/CCL Dated 08/15/2012. Found And Correlated To Liner Top. Drop Down To Depth, Set CFP At 12,098', Well Psi 5,600 Psi Perforate Stage 4 CR - 6 Zone, 11,808 - 12,084'. 54 Holes. Well Psi 5,600 Psi POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
19:10	0.25	19:25	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.

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ime Log	Dur (hr)	End Time	Code	Catego	ory			Com	
	Dur (hr)	End Time 20:40	FRAC	Frac. Job	ory	Open We BrokeDov Pump 39! Get Stabi F.G 54/5 Con't Witt Stage Into On Perfs, Stage Into On Perfs,	lized Injection Of 65.0 B	r G 22 3 Psi 108 Bio Balls, At pm And 6,570 Psi 9 Gals m At 6,556 Psi 20,727 Gals. 70.0 Bpm At 6,62 5,5638 Gals.	
						On Perfs,	2.5# 20/40 Versa Prop 69.6 Bpm At 5,955 Psi., 3# 20/40 Versa Prop, 6	24,608 Gals.	
						On Perfs,	69.6 Bpm At 6,022 Psi., 3.5# 20/40 Versa Prop	, 13,105 Gals.	
						On Perfs, Stage Intr F.G WS Total 100 Total 20/4 Total Clea BWTR - 3 Max. Ratr Avg. Rate Max. Psi.	69.9 Bpm At 6,516 Psi.	, 10,370 Gals.	f Get ISDP, 5,570 Psi 0.90 Psi./Ft.
0:40	2.33	23:00	SRIG	Rig Up/Down		RigDown	HES And SLB, MOL		
3:00	7.00	06:00	FBCK	Flowback Well		Turn Wel	Over To Delsco. Open	To FlowBack Or	14/64" Choke.
0-22-	-22 SA	9/7/2	012 0	0:00 - 9/8/20 ⁻	12 06:00	1			
ı/UWI			State/Province		Field Nam	ie	Well Status	Total Depth (i	rtKB) Primary Job Type
	0530000	ι	JT		South A	Altamont	PRODUCING		12,907.0 Drilling & Completion
me Log	Dur (hr)	End Time	Code	Catego	on/			Com	
00:00		01:00	CTRL	Crew Travel	,	CREW TI	RAVEL. HOLD SAFETY		
1:00	2.50	03:30	WKLL	Kill Well					P- 150. PUMPED 100 BBL'S DOWN LL TO TANK. FLOWING BACK +/- 1
3:30		05:30	DTIM	Downtime			WIRELINE.		
5:30	3.00 08:30 CTUW W/L Operation			R/U CUTTERS WIRELINE. RIH W/ 5" CBP. HAVING PROBLEMS W/ COLLAR LOCATOR. SET CBP @ 11,520'. 288' ABOVE TOP PERF. POOH R/D CUTTERS. BLEED DOWN WELL, WELL DEAD.					
	4.50	10:00	BOPI	Install BOP's			C TREE. N/U BOP & HY		
3:30	1.50		RUTB	Run Tubing		CHANGE			PLE. RIH TO 3455' P/U 2-3/8 TBG, H TO 4100' P/U 2-7/8 TBG. FLUSH
	4.00	14:00					CURED. CREW TRAVE	L.	
0:00	4.00	00:00	LOCL	Lock Wellhead & Se	ecure	WELL SE	CORED. CREW TRAVE		
0:00 4:00	4.00	00:00		Lock Wellhead & Se 6:00 - 9/9/20		WELL SE	CORED. CREW TRAVE		
0:00 4:00 10-22- PI/UWI	4.00 10.00 -22 SA	00:00 9/8/2	012 00 State/Province	6:00 - 9/9/20 ⁻	12 06:00 Field Nam	le e	Well Status	Total Depth (
0:00 4:00 0-22 - PI/UWI 3013510	4.00 10.00 -22 SA 0530000	00:00 9/8/2	012 0	6:00 - 9/9/20 ⁻	12 06:00 Field Nam			Total Depth (i	tKB) Primary Job Type 12,907.0 Drilling & Completion
0:00 4:00 0-22 - PI/UWI 3013510 ime Log	4.00 10.00 -22 SA 0530000	00:00 9/8/2	012 00 State/Province	6:00 - 9/9/20 ² County	12 06:00 Field Nam South A	le e	Well Status		
4:00 10-22- PI/UWI 13013510 Time Log	4.00 10.00 -22 SA 0530000 g	00:00 9/8/2 End Time	012 00 State/Province	6:00 - 9/9/20 ⁻ e County Catego	12 06:00 Field Nam South A	e Altamont	Well Status PRODUCING	Com	
08:30 10:00 14:00 10-22- PI/UWI 43013510 Fime Log Start Time 06:00 07:00	4.00 10.00 -22 SA 0530000 9 Dur (hr) 1.00	00:00 9/8/2	012 00 State/Province	6:00 - 9/9/20 ² County	12 06:00 Field Nam South A	Altamont CREW TI	Well Status PRODUCING RAVEL. HOLD SAFETY	Com MEETING.	

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Time Log

Dur (hr)

Start Time

06:00

07:00

End Time

1.00 07:00

3.00 10:00

Code

Crew Travel

Repair Rig

CTRL

RRIG

9	Bill B	arre	ii Co	rpora	ition					
Time Lo	g									
Start Time	(,	End Time			Category					Com
11:30	7.50	19:00	DOPG	Drill Ou			R/U POWER SWIVEL. BREAK CIRC. D/O KILL PLUG @ 11,520'. CFP- 450. SWIVEL IN HOLE TO CFP @ 12,098. D/O PLUG CFP- 500. SWIVEL IN HOLE TO CFP @ 12,296. D/O PLUG CFP- 350. SWIVEL IN HOLE TO CFP @ 12,565. D/O PLUG CFP- 900. SWIVEL IN HOLE, TAG SAND @ 12,745'. C/O SAND TO 12.800', TAGGING SOLID MAKING NO HOLE. CIRC WELL CLEAN. R/D SWIVEL.			
19:00	1.00	20:00	PULT	Pull Tul	oing		PULL AB	OVE PERFS W/ BIT.	TURN C	OVER TO FLOW BACK.
20:00	10.00	06:00	CTRL	Crew Travel		CREW T	RAVEL.			
10-22	-22 SA	9/9/2	012 0	6:00 -	9/10/2012	2 06:00				
API/UWI 4301351	0530000		State/Provinc	се	County	Field Nam South A		Well Status PRODUCING		Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion
Time Lo			_							
Start Time 06:00	Dur (hr)	End Time	CTRL	Crew T	Category		CDEW T	RAVEL. HOLD SAFET		Com
07:00		08:30	GOP		l Operations		_			F/ TOP OF PERF'S W/ 4-1/8 BIT TO 12,800'. NO
07.00	1.50	06.30	GOF	Genera	ГОрегацопѕ		FILL. PU			STARTING TO LEAK BAD. UNABLE TO GET
08:30	2.00	10:30	RUTB	Run Tu	bing		WAIT O	NEW ACC. CHANG	E OUT /	ACC.
10:30	2.50	13:00	PULT	Pull Tubing		ATTEMPT TO KILL WELL, PUMPED 100 BBL'S TOTAL DOWN CSG & STARTING TO PRESSURE UP. BLEED CSG TO TANK, FLOWING BACK +/- 1.5 BPM. HYDRILL LEAKING. N/U WASHINGTON STRIPPING HEAD. PULL ABOVE PERF'S.				
13:00	2.50	15:30	WKLL	Kill Well		ATTEMPT TO KILL WELL. ROLLED HOLE W/ 350 BBL'S TOTAL. OPEN TO TANK. FLOWING BACK @ +/- 1.5 BPM @ 200 PSI ON 48/64 CHOKE. TURN WELL OVER TO FLOW BACK. SDFN				
15:30	14.50	06:00	CTRL	Crew T	ravel		CREW T	RAVEL.		
_	2-22 SA	9/10/	/2012	06:00	- 9/11/201					
	0530000		State/Provinc UT	ce	County	Field Nam South A		Well Status PRODUCING		Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion
Time Lo		End Time	Code		Category					Com
06:00	,	07:00	CTRL	Crew T			CREW T	RAVEL. HOLD SAFET	Y MEE	
07:00	2.00	09:00	TRIP	Tripping)		CFP- 500 0N 12/64 CHOKE. RIH W/ BIT TO 12.800. POOH L/D 2-7/8 TBG TO 11,758 & LAND TBG.			
09:00	3.00	12:00	IWHD	Install V	Vellhead		N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 1800 PSI. R/U TBG TO SALES LINE. TURN WELL OVER TO FLOW BACK.			
12:00	2.50	14:30	SRIG	Rig Up/	Down		R/D RIG & EQUIPMENT.			
14:30		17:00	RMOV	Rig Mo			ROAD RIG TO 3-36-6-19 FD. SDFN			
17:00	13.00	06:00	CTRL	Crew T	ravel		CREW T	RAVEL.		
10-22	2-22 SA	9/19/	/2012 (06:00	- 9/20/201	12 06:00				
API/UWI			State/Province	се	County	Field Nam		Well Status		Total Depth (ftKB) Primary Job Type
	0530000		UT			South A	ltamont	PRODUCING		12,907.0 Drilling & Completion
Time Lo Start Time	Dur (hr)	End Time	Code		Category					Com
06:00	, ,	07:00	CTRL	Crew T			CREW T	RAVEL. HSM.		Com
07:00	8.00	15:00	GOP	Genera	Crew Travel General Operations		ROAD RIG TO LOCATION. RUSU. X/O FOR TBG. ND WH. NU BOP. RU FLOOR AND TBG EQUIP. UNLAND HANGER AND LD SAME. MEAS AND PU 33 JTS 2-7/8" L-80 TBG TO TAG AT 12,788. POOH AS LD 33-JTS TBG. POOH AS SB 36-JTS TBG WHEN CLUTCHES QUIT WORKING.			
15:00		17:30	RRIG	Repair	Rig			N CLUTCHES. N/C.		
17:30	12.50	06:00					DRW TR	AVEL. WELL SHUT IN	AND S	SECURE.
10-22	-22 SA	9/20/	2012	06:00	- 9/21/201	12 06:00				
API/UWI 4301351	0530000		State/Provinc	ce	County	Field Nam South A		Well Status PRODUCING		Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion
Time Lo		<u> </u>						_		, , , , , , , , , , , , , , , , , , , ,

CREW TRAVEL. HSM.

Com

CHANGE CLUTCH CYLINDER AND ADJUST CLUTCHES.

Category

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Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	8.50	18:30	PULT		SITP 900. BWD. CONT POOH W/ 210-JTS 2-7/8" L-80 TBG. X-OVER FOR 2-3/8". POOH W/ 108-JTS 2-3/8" L-80, SN, 1 JT 2-3/8". LD POBS. MU PROD BHA AND RIH WITH BULL PLUG, 6-JTS 2-3/8" TBG, DESANDER, 4' TBG SUB, 2-3/8" PSN, 1-JT 2- 3/8", 5" TAC, 108-JTS 2-3/8" L-80, X-OVER, 204-JTS 2-7/8" L-80 TBG, SDFN.
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SHUT IN AND SECURE.

10-22-22 SA 9/21/2012 06:00 - 9/22/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510530000	UT		South Altamont	PRODUCING	12,907.0	Drilling & Completion
Time Log						

Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	CTRL	Crew Travel	CREW TRAVEL. SAFETY MTG.
08:00	12.50	20:30	GOP		SITP 100 PSI. BLED DOWN. CONT RIH W/ 48-JTS 2-7/8" L-80 TBG. SET 5" TAC AT 11,726' IN 12K TENSION. PSN AT 11,760' AND EOT AT 11,976'. ND BOP. LAND HANGER W/ 252-JTS 2-7/8" L-80 TBG AND 108-JTS 2-3/8" TO TAC. RD FLOOR AND TBG EQUIP. NU WH. FLUSH TBG W/ 70 BBLS HOT WTR. X-OVER FOR RODS. PREP RODS. PU AND PRIME 20-150-37' INSERT PMP, MU SHEAR COUPLING. RIH AS PU 149-3/4" SLK RODS, 66-3/4" W/G, 47-7/8" ROD W/G. STACKING OUT IN 2-7/8" TBG AT 6550'. DISCOVERED COLLAR STOP HAD BEEN RUN WHEN WELL WAS FLOWING BY WAX CUTTERS. POOH W/ RODS AND PMP. WAIT ON SLK LINE TRUCK TO AOL. RU DELSCO. RIH (2 RUNS) TO FISH COLLAR STOP. RD DELSCO. SDFN.
20:30	9.50	06:00	CTRL	Crew Travel	CREW TRAVEL. WELL SHUT IN AND SECURE.

10-22-22 SA 9/22/2012 06:00 - 9/23/2012 06:00

The second second						
43013510530000	UT		South Altamont	PRODUCING	12,907.0	Drilling & Completion
API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type

Time Lo	Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com			
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.			
07:00	10.00	17:00	GOP		HOT OILER FLUSHED TBG W/ 75 BBLS. PU AND PRIME ROD PUMP. RIH W/ 20-150 -36 INSERT PMP, 149- 3/4" SLK, 66-3/4" W/G, 136-7/8" W/G, 119-1" W/G. SPACE OUT W/ 1-2', 1-4', 1-8' X 1" PONY RODS. PU 40' X 1-1/2" POLISH ROD. FILL TBG W/ .25 BBLS AND STROKE TEST TO 800 PSPI. GOOD. RDSU. MOVE RIG TO NEXT LOCATION. PRODUCTION SLIDE IN ROTO AND HUNG RODS ON.			
17:00	13.00	06:00	GOP	General Operations	WELL ON PRODUCTION.			

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	STATE OF UTAH			FORM 9
1	DEPARTMENT OF NATURAL RESOL DIVISION OF OIL, GAS, AND N		3	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORT	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significan reenter plugged wells, or to drill hor n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W M	Meridian:	U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
I .	CHANGE WELL STATUS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly she 2 monthly drilling activity	C	rtinent details including dates, d	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: DEPTHS, VOLUMES, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 07, 2012
NAME (PLEASE PRINT)	PHONE NU	MBER	TITLE	
SIGNATURE N/A	303 312-8115		Permit Analyst DATE 11/7/2012	



	22 3A				- 10/2/201				TE	
API/UWI 43013510			tate/Provinc JT	е	County	Field Name South Al		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion	
Fime Log Start Time	Dur (hr)	End Time	Code		Category				Com	
00:00	, ,	01:00	CTRL	Crew Tr			CREW T	RAVEL. HOLD SAFET		
01:00	0.50	01:30	SRIG	Rig Up/	Down		R/D RIG & RIG EQUIPMENT.			
01:30	1.50	03:00	RMOV	1 9			ROAD R BACK.	IG TO LOCATION. SP	OT IN RIG. HANG OFF RODS & SLIDE ROTO-FLEX	
03:00	1.50	04:30	SRIG	Rig Up/	Down		R/U RIG	& EQUIPMENT. UNSE	EAT PUMP. R/U D&M. FLUSH TBG W/ 70 BBL'S.	
04:30	8.50	13:00	PURP	Pull Rod Pump				// ROD PUMP L/D ROPEN TO SALES LINE.	DS. HAD TO FLUSH TBG 3 TIMES CLEAN UP RODS.	
13:00		14:00	CTRL	Crew Tr	ravel		CREW T	RAVEL.		
14:00	10.00	00:00	LOCL	Lock W	ellhead & Secure	9	WELL SH	HUT IN & SECURE.		
10-22-	22 SA	10/2/	2012 (06:00	- 10/3/201	2 06:00				
API/UWI	=======		tate/Provinc	е	County	Field Name		Well Status	Total Depth (ftKB) Primary Job Type	
430135109 Time Log		ι	JT			South Al	tamont	PRODUCING	12,907.0 Drilling & Completion	
Start Time	Dur (hr)	End Time	Code		Category				Com	
06:00		07:00	CTRL	Crew Tr			CREW T	RAVEL. HOLD SAFET		
07:00	1.50	08:30	ВОРІ	Install B	3OP's			1. FLUSH TBG & CSG & EQUIPMENT.	N/D WELLHEAD. RELEASE TAC. N/U BOP. R/U	
08:30	5.00	13:30	PULT	Pull Tub	oing		POOH W	// TAC L/D TBG. 252 、	JT'S 2-7/8 TBG & 115 JT'S 2-3/8 TBG.	
13:30	2.00	15:30	CTUW	W/L Op	eration		R/U CUT	TERS WIRELINE. RIF	W/ 5" CIBP. SET PLUG @ 11,790'. R/D CUTTERS.	
15:30	1.00	16:30	PTST	Pressur	e Test		TEST CS	G TO 4500 PSI FOR	5 MIN, HELD GOOD.	
16:30	1.50	18:00	IWHD	Install Wellhead			N/D BOP. N/U 10K FRAC TREE. TEST CSG & FRAC TREE TO 8250 PSI FOR 30 MINS, HELD GOOD. TEST SURFACE EQUIPMENT TO 4500 PSI, HELD GOOD. SDFN.			
18:00	1.00	19:00	CTRL	Crew Tr	ravel		CREW T	RAVEL.		
19:00	11.00	06:00	LOCL	Lock W	ellhead & Secure)	WELL SH	HUT IN & SECURE.		
10-22-2	22 SA	10/3/	2012 (06:00	- 10/4/201	2 06:00				
API/UWI 43013510		S	tate/Provinc		County	Field Name South Al		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion	
Time Log					l	l			, , , , , , , , , , , , , , , , , , , ,	
Start Time	Dur (hr)	End Time	Code		Category		O E		Com	
06:00		06:00	GOP		Operations		Start Filli	ng Frac Line		
10-22-	22 SA				- 10/5/201					
API/UWI 430135105 Time Log			tate/Provinc JT	е	County	Field Name South Al		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion	
Start Time	Dur (hr)	End Time	Code		Category				Com	
06:00	24.00	06:00	GOP	Genera	l Operations			ling Frac Line. fold And Movers. c Line.		
10-22-	22 SA				- 10/6/201					
API/UWI 43013510			tate/Provinc JT	е	County	Field Name South Al		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 12,907.0 Drilling & Completion	
Time Log Start Time	Dur (hr)	End Time	Code		Category				Com	
06:00		06:30	LOCL	Lock W	ellhead & Secure)	WSI And	Secured. 0 Psi. On W		
06:30		09:30	SRIG	Rig Up/			SLB Wire	eLine Arrive On Location	on, Hold Safety Meeting. Rig Up Equipment. Pick Up 10K 00 Psi., Arm Gun, Rig Up To Well.	
09:30	1.25	10:45	PFRT	Perforating			RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/07/2012 And SLB CBL/CCL Dated 08/15/2012. Found And Correlated To Liner Top. Drop Down To Depth, Perforate Stage 5 CR-6/CR-5/CR-4A Zone, 11,466 - 11,736'. 42 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.			
			10010	D: 1 l /	Davis		LIEC On	Location At 10:00 Hrs.	Die He Envisorent	
10:45 12:00	1.25 18.00		SRIG	Rig Up/	ellhead & Secure			Secured. SDFD.	Rig Up Equipment	



10-22-22 SA	10/6/2012 06:00 -	10/7/2012 06:00
IU-LL-LL UA	10/0/2012 00:00 -	

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510530000	UT		South Altamont	PRODUCING	12,907.0	Drilling & Completion
Time Log						

	0530000		UI	50	buth Atlamont PRODUCING 12,907.0 Drilling & Completion
ime Lo					
Start Time	Dur (hr)	End Time	Code	Category	Com
6:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
6:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:00		06:20	FRAC	Frac. Job	Frac Stage 5. Fluid System: Hybor G 17 Open Well, 2150 Psi. ICP. BrokeDown At 10.0 Bpm And 5,903 Psi Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 51.4 Bpm And 7,220 Psi., Get ISIP, 5,412 Psi 0.90 Psi./Ft. F.G., 21/42 Holes. Con't With SlickWater Pad, 33,302 Gals Stage Into 1.0# 100 Mesh, 64.7 Bpm At 6,946 Psi On Perfs, 66.1 Bpm At 6,775 Psi., 19,357 Gals. Stage Into 1# 20/40 CRC Prop, 66.1 Bpm At 6,716 Psi On Perfs, 66.7 Bpm At 6,177 Psi., 5,455 Gals. Stage Into 2# 20/40 CRC Prop, 68.4 Bpm At 6,739 Psi On Perfs, 66.7 Bpm At 6,032 Psi., 11,812 Gals. Stage Into 2.5# 20/40 CRC Prop, 66.7 Bpm At 6,148 Psi On Perfs, 66.7 Bpm At 5,929 Psi., 21,338 Gals. Stage Into 3.0# 20/40 CRC Prop, 66.8 Bpm At 5,920 Psi On Perfs, 67.0 Bpm At 5,786 Psi., 12,670 Gals. Stage Into 3.5# 20/40 CRC Prop, 67.0 Bpm At 5,818 Psi On Perfs, 68.5 Bpm At 6,320 Psi., 6,533 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf Get ISDP, 5,460 Psi., 0.91 Psi./Ft. F.G WSI And Secured. Total 100 Mesh - 19,200# Total 20/40 CRC - 140,000# Total Clean - 151,279 Gals 3,602 Bbls BWTR - 3,763 Bbls. Max. Rate - 68.8 Bpm Avg. Rate - 66.7 Bpm Max. Psi 6,955 Psi. Avg. Psi 6,257 Psi.
6:20		06:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
06:40	1.75	08:25	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/07/2012 And SLB CBL/CCL Dated 08/15/2012. Found And Correlated To Liner Top. Drop Down To Depth, Set CFP At 11,461'. 5,250 Psi Perforate Stage 6 CR-4/CR-3 Zone, 11,170 - 11,439'. 45 Holes. 5,200 Psi POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
8:25	0.16	08:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:35		11:05	FRAC	Frac. Job	Frac Stage 6. Fluid System: Hybor G 17 Open Well, 5238 Psi. ICP. BrokeDown At 8.9 Bpm And 5,666 Psi Pump 3200 Gals. 15% HCL And 60 Bio Balls, Lost Blender Suction Pump. Flushed Acid Away Pulling Hydrostatic From Hydration Tank.
1:05	1.25	12:20	SRIG	Rig Up/Down	RigDown Blender, Move In Rig Up New Blender

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Fime Log Start Time	Dur (hr)	End Time	Code	Category	Com
2:20		13:50	FRAC	Frac. Job	Frac Stage 6. Fluid System: Hybor G 17 Open Well, 5216 Psi. ICP. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.
					Get Stabilized Injection Of 47.8 Bpm And 7,031 Psi., Get ISIP, 5,322 Psi. 0.91 Psi./Ft. F.G 20/45 Holes.
					Con't With SlickWater Pad, 34,640 Gals Stage Into 1.0# 100 Mesh, 56.0 Bpm At 6,611 Psi On Perfs, 66.4 Bpm At 6,750 Psi., 23,083 Gals.
					Stage Into 1# 20/40 CRC Prop, 66.2 Bpm At 6,562 Psi On Perfs, 67.1 Bpm At 5,909 Psi., 5,352 Gals.
					Stage Into 2# 20/40 CRC Prop, 61.3 Bpm At 6,190 Psi On Perfs, 66.0 Bpm At 5,763 Psi., 11,526 Gals. Stage Into 2.5# 20/40 CRC Prop, 67.1 Bpm At 5,900 Psi
					On Perfs, 66.4 Bpm At 5,633 Psi., 26,248 Gals. Stage Into 3.0# 20/40 CRC Prop, 69.9 Bpm At 5,703 Psi
					On Perfs, 70.7 Bpm At 5,694 Psi., 12,537 Gals. Stage Into 3.5# 20/40 CRC Prop, 66.9 Bpm At 5,541 Psi On Perfs, 71.7 Bpm At 7,036 Psi., 7,030 Gals.
					Stage Into Flush, Flush 15 Bbls. Over Bottom Perf Get ISDP, 5,713 Psi 0.94 Psi./Ft. F.G WSI And Secured. Total 100 Mesh - 20,200#
					Total 20/40 CRC - 160,000# Total Clean - 177,822 Gals 4,234 Bbls
					BWTR - 4,421 Bbls. Max. Rate - 72.7 Bpm Avg. Rate - 67.2 Bpm
					Max. Psi 7,135 Psi. Avg. Psi 6,112 Psi.
:50	0.25	14:05		W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
14:05	1.50	15:35	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/07/2012 And SLE CBL/CCL Dated 08/15/2012.
					Found And Correlated To Liner Top. Drop Down To Depth, Set CFP At 11,164'. 5,100 Psi Perforate Stage 7 CR-3 Zone, 10,865 - 11,144'. 45 Holes. 5,100 Psi
5:35	0.08	15:40	GOP	General Operations	POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured. Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
15:40		17:10	FRAC	Frac. Job	Frac Stage 7. Fluid System: Hybor G 17 Open Well, 5056 Psi. ICP. BrokeDown At 8.0 Bpm And 5,176 Psi
					Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 56.3 Bpm And 7,080 Psi., Get ISIP, 5,134 Psi 0.90 Psi./Ft.
					F.G 21/45 Holes. Con't With SlickWater Pad, 36,078 Gals Stage Into 1.0# 100 Mesh, 67.8 Bpm At 6,751 Psi
					On Perfs, 68.9 Bpm At 6,748 Psi., 21,323 Gals. Stage Into 1# 20/40 CRC Prop, 68.9 Bpm At 6,474 Psi
					On Perfs, 70.0 Bpm At 5,920 Psi., 5,132 Gals. Stage Into 2# 20/40 CRC Prop, 70.0 Bpm At 6,220 Psi On Perfs, 69.9 Bpm At 5,851 Psi., 11,162 Gals.
					Stage Into 2.5# 20/40 CRC Prop, 70.1 Bpm At 5,932 Psi On Perfs, 70.3 Bpm At 5,756 Psi., 29,220 Gals.
					Stage Into 3.0# 20/40 CRC Prop, 70.4 Bpm At 5,788 Psi On Perfs, 70.0 Bpm At 5,730 Psi., 12,241 Gals. Stage Into 3.5# 20/40 CRC Prop, 70.2 Bpm At 5,782 Psi
					On Perfs, 70.4 Bpm At 6,292 Psi., 4,311 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf
					Get ISDP, 5,436 Psi 0.93 Psi./Ft. F.G WSI And Secured. Total 100 Mesh - 21,400# Total 20/40 CRC - 147,400#
					Total Clean - 157,878 Gals 3,759 Bbls BWTR - 3,925 Bbls.
					Max. Rate - 70.4 Bpm Avg. Rate - 70.2 Bpm Max. Psi 6,764 Psi. Avg. Psi 6,095 Psi.
7:10	0.17	17:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.

Sundry Number: 31787 API Well Number: 43013510530000



Time Log	ı				
Start Time	Dur (hr)	End Time	Code	Category	Com
17:20	1.50	18:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/07/2012 And SLB CBL/CCL Dated 08/15/2012. Found And Correlated To Liner Top. Drop Down To Depth, Set CFP At 10,860'. 5,000 Psi Perforate Stage 8 CR-2/Wasatch Zone, 10,561 - 10,844'. 45 Holes. 5,000 Psi POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
18:50	0.17	19:00	GOP	General Operations	Well Turned Over To HES. Cant Start One Sand Movers. Hydraulics Issues. Will Need Hydraulic Pack To Run, SDFD, Will Frac Stage 8 In Morning.
19:00		19:00	LOCL	Lock Wellhead & Secure	WireLine RigDown And MOL. WSI And Secured. SDFD.

10-22-22 SA 10/7/2012 06:00 - 10/8/2012 06:00

API/UWI State/Province County Field Name Well Status Producting 12,907.0 Drilling & Completion

43013310	530000	U	<i>)</i>		South Attainont PRODUCING 12,907.0 Diffilling & Completion
Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0630 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
07:00	0.50	07:30	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
07:30	1.42	08:55	FRAC	Frac. Job	Frac Stage 8. Fluid System: Hybor G 17 Open Well, 4823 Psi. ICP. BrokeDown At 8.2 Bpm And 5,355 Psi Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 60.6 Bpm And 6,902 Psi., Get ISIP, 5,182 Psi 0.92 Psi./Ft. F.G 25/45 Holes. Con't With SlickWater Pad, 34,723 Gals Stage Into 1.0# 100 Mesh, 70.3 Bpm At 6,416 Psi On Perfs, 70.9 Bpm At 6,285 Psi., 20,549 Gals. Stage Into 1# 20/40 CRC Prop, 70.8 Bpm At 6,368 Psi On Perfs, 70.4 Bpm At 6,084 Psi., 5,222 Gals. Stage Into 2# 20/40 CRC Prop, 70.6 Bpm At 6,322 Psi On Perfs, 70.1 Bpm At 5,879 Psi., 11,074 Gals. Stage Into 2.5# 20/40 CRC Prop, 70.4 Bpm At 6,073 Psi On Perfs, 70.4 Bpm At 5,801 Psi., 27,757 Gals. Stage Into 3.0# 20/40 CRC Prop, 70.4 Bpm At 5,887 Psi On Perfs, 70.1 Bpm At 5,954 Psi., 19,187 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf Get ISDP, 5,531 Psi 0.95 Psi./Ft. F.G WSI And Secured. Total 100 Mesh - 21,360# Total 20/40 CRC - 150,000# Total Clean - 157,185 Gals 3,743 Bbls BWTR - 3,926 Bbls. Max. Rate - 70.9 Bpm Avg. Rate - 70.9 Bpm Avg. Rate - 70.4 Bpm Max. Psi 6,967 Psi. Avg. Psi 6,117 Psi.
08:55	2.00	10:55	SRIG	Rig Up/Down	HES RigDown Equipment, MOL
10:55	19.08	06:00	FBCK	Flowback Well	Well Turned Over To Delsco. Open To FlowBack.

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	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOL DIVISION OF OIL, GAS, AND N		6	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	Y NOTICES AND REPORT	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significant reenter plugged wells, or to drill hor n for such proposals.	tly deep izontal l	en existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: 2	HP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W M	leridian:	U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	F	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	□ F	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		/ENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	☐ WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION
12/3/2012	WILDCAT WELL DETERMINATION		OTHER	OTHER:
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly sho	ow all no	rtinent details including dates d	<u>'</u>
	November monthly activity	-	-	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 03, 2012
			I ==== =	
NAME (PLEASE PRINT) Brady Riley	PHONE NU 303 312-8115	MBER	TITLE Permit Analyst	
SIGNATURE N/A			DATE 12/3/2012	

1a, TYPE OF WELL:

				TMEN	T OF N	OF U1 IATURA , GA S	L RESC						5. L		changes)	SERI	FØR
WELI	_ COI	VIPLET	ION	OR F	REC	OMPL	ETIC	N R	EPOF	RT ANI	D LOG		6. IF	INDIAN,	ALLOTTEE OR	TRIBE	NAME
OF WELL:		OI W			GAS MELL		DRY		ОТН	HER			7. U	NIT or CA	AGREEMENT N	AME	
OF WORK	: HORIZ. LATS. [EP-]	RE- ENTRY	П	DIFF. RESVR.		ОΤΙ	4EB			8. WELL NAME and NUMBER: 10-22-22 South Altamont				
OF OPERA		ration								MANUAL TO SERVICE AND ADDRESS OF THE PARTY O		,	9. A	PI NUMB			
ESS OF OP		วรกก ๑	ıτγ De	nvor				QO	202		NUMBER:	2400	10 F	ELD AN	POOL, OR WIL	DCAT	
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JRFACE:	2120 F	SL 2000	0 FEL										t t	MERIDIAI NSE	22 28		W U
OP PRODUC	CING INTE	RVAL REPOR	RTED BEI	.ow: 2	113	FSL 20	13 FE	L								-	9
OTAL DEPT	⊭: 21 1	1 FSL 2	014 F	EL	BH	L K	y H	MG					1 _	COUNTY		13.	STATE UTAH
SPUDDED 2012);	15. DATE T. 8/7/20		HED:		TE COMPI 26/201:		,	ABANDON	NED 🗌	READY TO	PRODUC	E 🗸	17. ELE	VATIONS (DF, R	KB, R	T, GL):
AL DEPTH:		2,907 2, 895 9		9. PLUG		.D.: MD	12,80: 12,79		20. IF	MULTIPLE C	OMPLETION	s, HOW I	MANY?*	21. DEF	TH BRIDGE I	MD TVD	
		ER MECHAN								WAS DST	L CORED? RUN? DNAL SURVE	Y?	NO NO NO	✓	YES 🔲 (S		analysis) report) copy)
		ORD (Report					T		STAGE	CEMENTER	CEMENT	TYPE &	SLU	DDV			
E SIZE	SIZE/G		WEIGHT	` `	TO	(MD)		M (MD)		EPTH	NO. OF S	ACKS	VOLUM		CEMENT TOP	·**	AMOUNT PULLED
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NG RECOR	KD						<u> </u>				<u> </u>			•			
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7/8 DUCING IN		0,503									RATION REC						750000000000000000000000000000000000000
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	14.														Open		queezed
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FRACTU	E TDEAT	MENT, CEME	NT SOU	EEZE ET	r:										Open	s	queezed
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								3						······································			
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1a, TYPE OF WELL:		OI W	ELL 🗸	;	GAS WELL]	DRY		OTHE	R			7. U	NIT or CA	AGREEMENT	NAME		
b. TYPE OF WORK NEW WELL	: HORIZ. LATS.	DI EX	₽		RE- ENTRY]	DIFF. RESVR.		ОТН	ir					E and NUMBE 22 South		amont	-
2. NAME OF OPERA Bill Barrett		tion				***						,		PI NUMBE				_
3. ADDRESS OF OP	<u> </u>						-			PHONE	NUMBER:				POOL, OR W	(I) DCA	· · · · · · · · · · · · · · · · · · ·	
1099 18th S			ity Dei	nver		STATE	co	ZIP 80 2	202		3) 293-9	100		Bluebe	ell			
LOCATION OF W AT SURFACE:	-	•	n EEI										11.	QTR/QTR, MERIDIAN	SECTION, TO	OWNS	IIP, RANGE,	_
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AT TOP PRODUC	CING INTERVA	AL REPOR	RTED BEL	.ow: 2	2113 F	SL 20	13 FE	L										
AT TOTAL DEPT					BHL		<u> </u>	<u>M6</u>						COUNTY Ouches	sne	13	. STATE UTAH	_
14. DATE SPUDDED 6/9/2012		. DATET 8/7/20	.D. REACI	HED:	16. DATE 9/26	COMPL 2012		,	ABANDÓNE	:D 🔲	READY TO F	RODUC	ΕV		ATIONS (DF,	RKB,	RT, GL):	_
18. TOTAL DEPTH:				9. PLUG	BACK T.D.		12,802	2	20. IF N	ULTIPLE C	OMPLETIONS	. HOW	MANY?*		TH BRIDGE	MD		
	TVD 12,		02				12,797								JG SET:	TVD		
22. TYPE ELECTRIC	AND OTHER	MECHAN	ICAL LOC	S RUN (Submit cop	y of each)			23.								_
										l	L CORED?		NO	=	=	•	t analysis)	
										WAS DST DIRECTIO	NAL SURVEY	"?	NO NO		=	(Submi	t report) t coov)	
24. CASING AND LI	NER RECORD	(Report	all strings	set in w	eli)					1						(Oubin	Сооруу	
HOLE SIZE	SIZE/GRA	DE	WEIGHT	(#/作.)	TOP (I	MD)	BOTTO	M (MD)		STAGE CEMENTER CEMENT TYPE & DEPTH NO. OF SACKS			SLUI VOLUM		CEMENT TO	OP **	AMOUNT PULLED	
26	20 C	one	65	#	0 80						110, 01		702011		0			_
12 1/4		-55	36		0			317	7 2,31			780	26	37	0			
8 3/4		CE	26		0			705			G	725	26	-	3034	1	15000	_
6 1/8	5 P	116	18	#	0			907	ļ	893	G	215	5		000-	T	10000	-
																		_
25. TUBING RECOR	KD			_														_
SIZE	DEPTH S		PACK	ER SET (MD)	SIZE		DEPTH	SET (MD)	PACKE	R SET (MD)		SIZE	D	EPTH SET (M	ID)	PACKER SET (MD)	_
2 7/8	10,5	503															· · · · · · · · · · · · · · · · · · ·	
26. PRODUCING IN		TOP	(B)(C)	P ○TT	OM (MD)	TO0.	(T) (D)	Locato			RATION REC		0.000					
(A) Wasatch	TYMINE		561		787	TOP	(TVD)	ВОПО	M (TVD)	10.561	L (Top/Bot - N		SIZE	NO. HOL			ATION STATUS	
(B)		10,	JU 1	12	101					10,001	12,	101	.44	369	Open C	=	Squeezed Squeezed	
(C)	· · · · · · · · · · · · · · · · · · ·														Open	=-	Squeezed	
(D)															Open		Squeezed Squeezed	_
28. ACID, FRACTUR	RE, TREATME	NT, CEME	ENT SQUE	EZE, ET	 C,				I	······································			_		J Opoli [<u> </u>	Diducesca	_
	NTERVAL						i		AMO	UNT AND T	YPE OF MAT	ERIAL						_
10561 TO 12	2787		Was	atch:	See Tr	eatme	ent sta	iges 1	-8									
								3	· ·									-
																		_
29. ENCLOSED AT	rachments:														30.	WELL	STATUS:	_
=	RICAL/MECHA			CEMENT	VERIFICA	TION	\equiv	GEOLOGI CORE AN	IC REPORT		DST REPOR	r 🔽	DIREC	TIONALS	URVEY		POW	
M					**								·	RE	CEIV	/EI		
(5/2000)							(CO	NTINU	ED ON E	ACK)								
								DE	CO47	2012	•							

Div. of Oil, Gas & Mining

INITIAL	

INTERVAL A (As shown in item #26)

9/26/2012		TEST DATE: 10/8/2012)	HOURS TESTE	D: 24	TEST PRODUCTION RATES: →	OIL - BBL: 1,229	GAS - MCF: 812	WATER - BBL:	PROD. METHOD:
					۵4		1,449	012	1,926	Flowing
10/64	TBG. PRESS.	CSG. PRESS. 4,000	API GRAVITY 52.00	BTU-GAS	GAS/OIL RATIO 660	24 HR PRODUCTION RATES: →	OIL - BBL: 1,229	GAS-MCF: 812	WATER - BBL: 1,926	INTERVAL STATUS:
				IN7	ERVAL B (As show	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE	D;	TEST PRODUCTION RATES: →	OIL-BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL — BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
		-	-	INT	ERVAL C (As show	wn in item #26)				· · · · · · · · · · · · · · · · · · ·
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE	D:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL;	PROD. METHOD;
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS
				IN	ERVAL D (As shor	wn in item #26)	· · · · · · · · · · · · · · · · · · ·			
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTE	D:	TEST PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU-GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

33. SUMMARY OF POROUS ZONES (include Aquifers):

34. FORMATION (Log) MARKERS:

Show all important zones of porosity and contents thereof; Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth
				Green River	5,194
	1			Mahogany	7,049
		1 1		Tgr3 Marker	8,296
		1 1		Douglas Creek	8,469
				Black Shale	9,660
		1		Castle Peak	9,802
	ł	1		Uteland Butte	10,107
				Wasatch	10,541
				l TD	12,901

35. ADDITIONAL REMARKS (include plugging procedure)

Conductor was cemented with grout. Treatment Data attached, First Oil sales was on 9/26/2012, first Gas sales was on 11/21/2012.

hereby certify	that the foregoing	and attached information i	s complete and correct	as determined from all available records.
	hereby certify	hereby certify that the foregoing	hereby certify that the foregoing and attached information i	hereby certify that the foregoing and attached information is complete and correct

NAME (PLEASE PRINT) Julie Webb

Permit Analyst TITLE

SIGNATURE

12/4/2012 DATE

This report must be submitted within 30 days of

- completing of plugging a new well
 drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

801-359-3940 Fax:

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

10-22-22 Completion Report Continued*

	44. A	CID, FRACTURE, TRI	EATMENT, CEM	ENT SQUEEZE, ETC.	(cont.)
		AMOUNT	AND TYPE OF I	MATERIAL	
Stage	BBLS Slurry	lbs 100 Mesh Sand	lbs VersaProp	lbs 20/40 CRC Sand	lbs 20/40 White Sand
1	4,041	21,400	156,200		
2	3,959	20,600	150,400		
3	3,753	20,600	150,100		
4	4,022	21,260	148,480		
5	3,773	19,200		121,200	
6	4,542	20,200		160,000	
7	3,754	21,400		137,300	
8	3,743	21,360		, , = -	150,000

^{*}Depth intervals for frac information same as perforation record intervals.

Bill Barrett Corp

Duchesne County, UT (NAD 1927) Sec. 22-T2S-R2W South Altamont 10-22-22

Plan A

Design: Gyrodata Gyro and Sperry MWD Survey

Sperry Drilling ServicesFinal Survey Report

04 December, 2012

Well Coordinates: 716,799.66 N, 2,392,514.48 E (40° 17' 34.20" N, 110° 05' 34.19" W)

Ground Level: 5,450.00 ft

Local Coordinate Origin:

Centered on Well South Altamont 10-22-22

Viewing Datum:

KB @ 5474.00ft (H&P 319)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied Version: 2003.16 Build: 43I

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

0.00 0.05 20.02.5 600.00 0.05 20.32.5 600.00 0.05 0.00 0.05 1.73 0.00 0.00 0.00 0.05 1.44 0.58 1.34 0.16 1,000.00 0.62 209.81 999.99 -3.49 -1.06 2.26 4.49 0.04 1,000.00 0.55 207.32 1,189.87 -5.28 -2.06 4.49 0.04 1,000.00 1.57 22.22.24 1,599.91 -10.26 -7.05 1.13 0.07 1,800.00 3.03 231.57 1,799.74 -15.22 -13.36 19.31 0.73 2,200.00 5.29 238.83 2,188.45 -33.73 -30.07 50.88 7.05 0.	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
Surveys from 200.00t to 2249.0th are Gyro Surveys 400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surveys from 200.00ft to 2249.00ft are Gyrodata Gyro Surveys	200.00							
MODOO	Surveys from	n 200.00ft to 22	49.00ft are Gvi			0.01	0.02	0.00
600.00 0.25 202.5 600.00 -0.33 -0.44 0.55 0.09 800.00 0.52 177.82 799.99 -1.64 -0.58 1.34 0.16 1.000.00 0.62 209.81 999.99 -3.49 1.108 2.73 0.16 1.200.00 0.55 207.32 1.199.97 -5.28 -2.06 4.49 0.04 1.400.00 0.98 224.23 1.399.96 -7.36 -3.69 6.97 0.24 1.600.00 1.57 232.24 1.599.91 -10.26 -7.05 11.34 0.31 1.800.00 3.03 231.67 1.798.74 -1.522 -1.3.8 19.31 0.73 1.800.00 3.03 231.67 1.798.74 -1.522 -1.3.8 19.31 0.73 1.800.00 5.5 207.32 1.199.95 -2.33 8 -24.58 3.31 3 0.96 2.200.00 5.29 233.63 2.198.45 -33.73 -39.07 50.89 0.20 2.249.00 5.54 235.00 2.247.23 -36.43 -42.83 55.50 0.57 TIP-On to Gyrodata Gyro Survey 2.400.00 5.33 231.72 2.403.53 -45.29 5-6.76 70.30 0.24 First Sperry MWD Survey 2.500.00 4.10 220.71 2.497.21 50.55 6.03 77.83 1.62 2.594.00 3.84 214.20 2.590.99 5.57.0 64.34 83.88 0.55 2.698.00 3.19 0.02.79 2.684.81 6.071 6.67.13 88.86 1.01 2.782.00 2.26 213.45 2.778.68 6.50 4.69.40 93.05 0.72 2.876.00 2.25 205.22 2.872.59 6.86.2 -71.14 96.60 0.70 2.971.00 1.21 206.28 2.967.55 -71.21 -72.69 99.06 1.10 3.065.00 0.76 183.09 3.061.53 -72.72 -73.17 1.00.25 0.63 3.159.00 0.29 63.57 3.155.53 -72.22 -73.17 1.00.25 0.63 3.159.00 0.29 63.57 3.155.53 -72.29 99.52 0.61 3.348.00 1.38 28.48 3.344.51 -71.04 -71.46 96.66 0.70 2.971.00 1.21 206.28 2.967.55 -71.21 -72.69 99.52 0.61 3.348.00 1.38 28.48 3.344.51 -71.04 -71.46 97.91 1.03 3.055.00 0.76 183.09 3.061.53 -72.72 -73.17 1.00.25 0.63 3.159.00 0.29 63.57 3.155.53 -72.27 -73.17 1.00.25 0.63 3.159.00 0.29 63.57 3.524.7 -79.99 99.52 0.61 3.348.00 1.38 28.48 3.345.1 -71.04 -71.46 97.91 1.03 3.055.00 0.76 183.09 3.061.53 -72.72 -73.17 1.00.25 0.63 3.255.00 0.81 35.40 3.249.53 -72.59 -72.29 99.52 0.61 3.348.00 1.35 28.48 3.345.1 -71.04 -71.46 97.91 1.03 3.050.00 0.76 183.09 3.061.53 -72.72 -73.77 1.69.99 99.52 0.61 3.349.00 1.57 2.584.64 1.60.71 -71.46 97.91 1.03 3.050.00 0.76 183.09 3.061.53 -72.72 -73.77 1.69.99 99.52 0.61 3.349.00 1.57 2.585.00 1.57 2.585.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00			-	=	•	-0.17	0.07	0.06
800.00 0.52 177.82 799.99 -1.64 -0.56 1.34 0.16 1.000.00 0.62 299.81 999.99 -3.49 -1.08 2.73 0.16 1.200.00 0.55 207.32 1,199.97 -5.28 2.206 4.49 0.04 1.400.00 0.98 224.23 1,399.96 -7.36 3.69 6.97 0.24 1.800.00 1.57 232.24 1,599.91 -10.26 7.05 11.34 0.31 1.800.00 3.03 231.67 1,799.74 -15.22 -13.36 19.31 0.73 2.000.00 4.93 235.35 1,999.25 23.38 24.58 33.13 0.96 2.200.00 5.29 233.63 2,198.45 -33.73 -39.07 50.89 0.20 2.249.00 5.54 235.00 2,247.23 36.43 42.83 55.50 0.57 TIB-Ont Gyrodata Gyro Survey 2.406.00 5.33 231.72 2,403.53 -45.29 -54.76 70.30 0.24 First Sperry MWD Survey 2.590.00 4.10 220.71 2.497.21 -50.55 -60.36 77.83 1.62 2.594.00 3.84 214.20 2,590.99 -55.70 -64.34 83.88 0.55 2.688.00 3.19 20.279 2,884.81 -60.71 -67.13 88.86 1.01 2.782.00 2.20 213.45 2,778.68 -65.04 -69.40 93.05 0.72 2.876.00 2.25 205.22 2,872.59 -68.62 -71.46 96.66 0.70 2.971.00 1.21 206.28 2,967.55 -71.21 -72.69 99.06 1.00 3.055.00 0.76 183.09 3,061.53 -72.72 -73.17 10.02 5 0.63 3.159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.05 1.00 3.345.00 0.91 23.73 3,438.49 -69.36 -70.62 99.35 1.00 3.345.00 0.91 23.73 3,349.83 -72.79 -79.99 99.94 99.50 3.353.00 0.81 35.40 3,249.53 -72.72 -73.17 10.25 6.83 3.159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.72 -73.17 10.25 6.83 3.159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.30 10.36 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.62 99.39 100.36 1.00 3.253.00 0.81 35.40 3,249.53 -72.59 -70.6	600.00	0.25						
1,000,00	800.00	0.52						
1,200,00 0,55 2073;2 1,199,97 -5,28 -2.06 4,49 0,04 1,400,00 0,98 224,23 1,393,96 -7.36 -3.69 6,97 0,24 1,600,00 1,57 232,24 1,393,96 -7.36 -7.06 11.34 0,31 1,800,00 3,03 231,67 1,799,74 -1.5,22 -1.3,36 19.31 0,73 2,000,00 4,93 235,35 1,999,25 -23,38 -24,58 33.13 0,96 2,200,00 5,29 233,63 2,198,45 -33,73 -39,07 50.89 0,20 2,249,00 5,54 235,00 2,247,23 -36,43 42.83 55,50 0,57 TE-On to Gyrodrate Gyro Survey 2,406,00 5,33 231,72 2,403,53 45,29 -54,76 70,30 0,24 First Sperry MWD Survey 2,500,00 4.10 220,71 2,497,21 -50,55 -60,38 77,83 1,62 2,588,00 3,19 202,79 2,884,18 -50,71 -67,13 88,86 1,01 2,782,00 2,284,00 3,19 202,79 2,884,18 -50,71 -67,13 88,86 1,01 2,782,00 2,297,00 1,21 206,28 2,687,55 -71,21 -72,68 99.06 1,10 3,065,00 0,76 183,09 3,061,53 -72,72 -73,17 100,25 0,63 3,155,00 0,11 3,54 0,3,248,53 -73,24 -72,99 100,36 1,10 3,253,00 0,81 3,54 0,3,248,53 -72,52 -72,29 -70	1 000 00	0.00						
1,400,00 0,98 224,23 1,399,96 -7,38 -3,89 6,97 0,24 1,600,00 1,57 232,24 1,599,91 -10,26 -7,05 11,34 1,31 0,33 1,600,00 3,03 231,67 1,799,74 -1,522 1,33,6 19,31 0,73 2,000,00 4,93 23,53 1,999,25 -23,38 -24,58 33,13 0,96 2,200,00 5,29 233,63 2,198,45 -33,73 -39,07 50,89 0,20 2,248,00 5,54 235,00 2,247,23 -36,43 42,83 55,50 0,57 TIB-On to Gyrodata Gyro Survey 2,400,00 5,33 231,72 2,403,53 45,29 54,76 70,30 0,24 First Sperry MWD Survey 2,500,00 4,10 220,71 2,497,21 -50,55 -80,38 77,83 1,62 2,594,00 3,84 214,20 2,590,99 -55,70 -64,34 83,88 0,55 2,688,00 3,19 202,79 2,584,81 -60,71 -67,13 88,86 1,01 2,788,00 2,26 2,272,59 -86,65 4-69,40 93,05 0,72 2,277,00 1,21 2,06,28 2,967,55 -71,21 -72,69 99,06 1,10 3,065,00 0,76 183,09 3,061,53 -72,72 -73,17 100,25 0,63 3,159,00 0,29 63,57 3,155,53 -73,24 7,72,99 100,36 1,00 3,253,00 0,81 35,40 3,248,53 -72,72 -73,17 100,25 0,63 3,448,00 0,18 2,848,344,51 -71,04 -71,46 97,91 0,61 3,442,00 0,91 2,373 3,438,00 1,18 2,344,51 -71,04 -71,46 97,91 0,61 3,442,00 0,91 2,373 3,438,49 -89,36 7,70,62 99,99 94,98 0,26 3,57 3,438,40 0,91 2,373 3,438,40 -89,36 7,70,62 99,99 94,98 0,26 3,57 3,438,40 0,91 2,373 3,438,40 -89,36 7,70,62 99,99 94,98 0,26 3,57 3,438,40 0,91 2,373 3,438,40 -89,36 7,70,62 99,99 94,98 0,26 3,57 3,438,40 0,91 2,373 3,438,40 -89,36 7,70,62 99,99 94,98 0,26 3,57 3,438,40 0,91 2,373 3,438,40 -89,36 7,70,62 99,99 94,98 0,26 3,57 3,438,40 0,91 2,373 3,438,40 -89,36 7,70,62 99,37 4,38 0,08 3,725,00 1,47 2,43 4,372,43 4,472,99 10,36 1,00 2,26 3,57 3,43 4,51 4,710,4 7,714,6 97,91 0,61 4,10 3,00 1,52 2,56 4,40,99,33 -56,28 -65,09 44,83 0,16 4,197,00 1,52 3,39,6 4,193,31 -54,47 8,40 9,99 94,98 0,26 4,85 0,00 1,17 2,43 4,472,00 1,52 3,39,6 4,193,31 -54,47 8,40 9,99 94,98 0,26 4,85 0,00 1,17 2,26 99 4,382,24 4,99 3 -61,66 78,52 0,00 4,48 0,00 1,17 2,28 99 4,382,24 4,99 3 -61,66 78,52 0,00 4,48 0,00 1,17 2,28 99 4,382,24 4,99 3 -61,66 78,52 0,00 4,48 0,00 1,17 2,33 3,34 4,66 4,47 4,49 4,90 4,46 4,47 4,48 0,00 1,59 2,59 4,48 6,41 4,47 6,0 3,49 4,47 6,0 3,40 4,47 6,0 3,40 4,47 6,0 3,	•							
1,800.00	•							
1,800.00 3.03 231.67 1,799.74 -15.22 -13.36 19.31 0.73 2,000.00 4.93 235.55 1.999.25 -23.38								
2,000,00	•							
2,200.00 5.29 233.63 2,198.45 -33.73 -39.07 50.89 0.20 2,249.00 5.54 235.00 2,247.23 -36.43 42.83 55.50 0.57 The-On to Gyrodata Gyro Survey 2,406.00 5.33 231.72 2,403.53 45.29 -54.76 70.30 0.24 First Sperry MWD Survey 2,500.00 4.10 20.71 2,497.21 -50.55 -60.36 77.83 1.62 2.594.00 3.84 214.20 2,590.99 -55.70 -64.34 83.88 0.55 2,688.00 3.19 202.79 2,684.81 -60.71 -67.13 88.86 1.01 2,782.00 2.80 213.45 2,778.68 -65.04 -69.40 93.05 0.72 2,876.00 2.25 205.22 2,872.59 -68.62 -71.46 96.66 0.70 2,971.00 1.21 206.28 2,967.55 -71.21 -72.69 99.06 1.10 3,065.00 0.76 183.09 3,061.53 -72.72 -73.17 100.25 0.63 3,159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.38 1.00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 99.52 0.61 3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.16 23.43 3,484.00 1.18 23.45 3,627.45 -68.00 -69.27 93.43 0.08 3,725.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.11 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.89 0.66 3,725.00 1.47 24.34 4.94 3.84 5.60 -65.82 8.63 2 0.10 4.99 3.79 3.43 0.08 4.99 3.79 5.00 1.47 24.34 4.94 3.79 4.99 3.79 5.82 6.65 8.79 1 0.17 4.90 3.00 1.55 2.66 4.99 3.3 -65.28 6.65 8.79 1 0.17 4.90 3.3 -65.28 6.65 8.79 1 0.17 4.90 3.3 -65.28 6.65 8.79 1 0.17 4.90 3.3 -65.28 6.65 8.79 1 0.17 5.70 6.90 3.3 -65.28 6.65 8.79 1 0.17 5.70 6.90 3.3 -65.29 6.65 5.70 6.80 3 0.04 4.99 3 -65.60 6.50 7 6.50 0.00 6.70 6.70 6.70 6.70 6.70 6.70 6.7	1,000.00	3.03	231.67	1,799.74	-15.22	-13.36	19.31	0.73
2,249.00 5.54 235.00 2,247.23 -366.43 42.83 55.50 0.57 TIB-On to Gyrodata Gyro Survey 2,406.00 5.33 231.72 2,403.53 45.29 54.76 70.30 0.24 First Sperry MWD Survey 2,500.00 4.10 220.71 2,497.21 -50.55 -60.38 77.83 1.62 2,594.00 3.84 214.20 2,590.99 -55.70 -64.34 83.88 0.55 2,688.00 3.19 202.79 2,684.81 -60.71 -67.13 88.86 1.01 2,782.00 2.80 213.45 2,778.68 -65.04 -69.40 93.05 0.72 2,876.00 2.25 205.22 2,872.59 -68.62 -71.46 96.66 0.70 2,971.00 1.21 206.28 2,967.55 -71.21 -72.69 99.06 1.10 3,065.00 0.76 183.09 3,061.53 -72.72 -73.17 100.25 0.63 3,159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1.00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 99.52 0.61 3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,596.00 1.16 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,290.00 1.41 24.15 3,816.40 -61.84 -67.41 89.68 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.50 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,103.00 1.55 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -60.00 76.31 0.18 4,103.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,107.00 1.52 33.96 4,193.31 -54.47 -60.30 76.31 0.18 4,107.00 1.51 33.36 4,500.31 -59.82 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -60.30 76.31 0.18 4,107.00 1.51 33.39 4,664.16 -43.99 -58.25 7.261 0.32 4,866.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,107.00 1.51 33.39 4,664.16 -43.99 -58.25 7.261 0.32 4,666.00 1.15 33.33 4,664.16 -43.99 -58.25 7.261 0.32 4,666.00 1.15 33.33 4,664.16 -43.99 -58.25 7.261 0.32 4,666.00 1.15 33.33 4,664.16 -43.99 -58.25 7.261 0.32 4,666.00 1.15 40.19 4,758.13 -42.71 -60.30 76.31 0.18 4,574.00 1.50 9.67 4,768.13 -42.71 -60.30 76.31 0.18 4,574.00 1.50 9.50 4,758.13 -42.71 -60.30 76.31 0.18 4,574.00 1.50 9.50 4,759.31 -42.71 -42.71 -50.30 76.31 0.18 4,574.00 1.51 40.19 4,758.13 -42.71 -50.50 76.50 76.30 0.00 4,860.00 1.51 40.19 4,758.	2,000.00	4.93	235.35	1,999.25	-23.38	-24.58	33.13	0.96
Tie-On to Gyrodata Gyro Survey 2,406.00 5.33 231.72 2,403.53 45.29 54.76 70.30 0.24	2,200.00	5.29	233.63	2,198.45	-33.73	-39.07	50.89	0.20
2,406.00 5.33 231.72 2,403.53 -45.29 -54.76 70.30 0.24 First Sperry WIND Survey 2,500.00 4.10 220.71 2,497.21 -50.55 -80.38 77.83 1.62 2,594.00 3.84 214.20 2,590.99 -55.70 -64.34 83.88 0.55 2,688.00 3.19 202.79 2,684.81 -60.71 -67.13 88.86 1.01 2,7876.00 2.25 205.22 2,872.59 -86.82 -71.46 96.66 0.70 2,971.00 1.21 206.28 2,967.55 -71.21 -72.69 99.06 1.10 3,065.00 0.76 183.09 3,061.53 -72.72 -73.17 100.25 0.63 3,159.00 0.29 68.57 3,155.53 -72.24 -72.99 100.36 1.00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 95.52 0.61 3,442.00 0.91 23.73	2,249.00	5.54	235.00	2,247.23	-36.43	-42.83	55.50	0.57
### Pirst Sperry MWD Survey 2,500.00	Tie-On to Gy	rodata Gyro St	urvey					
2,500.00	,		231.72	2,403.53	-45.29	-54.76	70.30	0.24
2.594.00	First Sperry	MWD Survey						
2,688.00 3.19 202.79 2,684.81 -60.71 -67.13 88.86 1.01 2,782.00 2.80 213.45 2,778.68 -65.04 -69.40 93.05 0.72 2,876.00 2.25 205.22 2,872.59 -68.62 -71.46 96.66 0.70 2,971.00 1.21 206.28 2,967.55 -71.21 -72.69 99.06 1.10 3,065.00 0.76 183.09 3,061.53 -72.72 -73.17 100.25 0.63 3,159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.38 1.00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 99.52 0.61 3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.15 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 683.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,880.00 1.51 32.86 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.50 24.15 4,570.18 -45.70 1.50 2.74 -40.00 1.51 32.86 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.50 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.17 23.33 3,466.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.51 40.99 4,758.13 -42.21 -56.89 70.53 0.55 5,234.00 1.54 40.99 35 -56.28 6.50 9.30 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.51 40.99 50.99 50.90 40.19 -56.25 72.61 0.28 4,762.00 1.51 40.01 40.19 4,758.13 -42.21 -56.89 70.53 0.55 5,234.00 1.51 40.01 40.19 4,758.13 -42.21 -56.89 70.53 0.55 5,234.00 1.54 66.80 0.11 5.00 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.51 40.19 4,758.13 -42.21 -56.89 70.53 0.55 5,234.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 58.74 1.06 5.328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 58.74 1.06 5.328.		4.10	220.71		-50,55	-60.38	77.83	1.62
2,782.00	2,594.00	3.84	214.20	2,590.99	-55.70	-64.34	83.88	0.55
2,876.00	•		202.79	2,684.81	-60.71	-67.13	88.86	1.01
2,971.00 1.21 206.28 2,967.55 -71.21 -72.69 99.06 1,10 3,065.00 0.76 183.09 3,061.53 -72.72 -73.17 100.25 0.63 3,159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1.00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 99.52 0.61 3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.15 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41	·			2,778.68	-65.04	-69.40	93.05	0.72
3,065.00 0.76 183.09 3,061.53 -72.72 -73.17 100.25 0.63 3,159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1,00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 99.52 0.61 3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.15 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,686.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.54 40.99 3,745.00 -75.99 -75.20 68.03 0.04 4,951.00 1.55 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,139.00 0.78 52.93 5,135.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 58.74 1.06 5.242.00 0.14 68.79 5,418.99 -34.83 -46.84 58.10 0.37 65.420.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06				2,872.59	-68.62	-71.46	96.66	0.70
3,159.00 0.29 63.57 3,155.53 -73.24 -72.99 100.36 1.00 3,253.00 0.81 35.40 3,249.53 -72.59 -72.39 99.52 0.61 3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.15 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,080.00 1.17 21.20 4,004.35 -57.97 -65.82	2,971.00	1.21	206.28	2,967.55	-71.21	-72.69	99.06	1.10
3,253.00	3,065.00	0.76	183.09	3,061.53	-72.72	-73.17	100.25	0.63
3,348.00 1.38 28.48 3,344.51 -71.04 -71.46 97.91 0.61 3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.15 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.51 32.88 4,476.21	3,159.00	0.29	63.57	3,155.53	-73.24	-72.99	100.36	1.00
3,442.00 0.91 23.73 3,438.49 -69.36 -70.62 96.32 0.51 3,536.00 1.15 20.20 3,532.47 -67.79 -69.99 94.98 0.26 3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24	3,253.00	0.81	35.40	3,249.53	-72.59	-72.39	99.52	0.61
3,536.00	3,348.00	1.38	28.48	3,344.51	-71.04	-71.46	97.91	0.61
3,631.00 1.18 23.45 3,627.45 -66.00 -69.27 93.43 0.08 3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18	3,442.00	0.91	23.73	3,438.49	-69.36	-70.62	96.32	0.51
3,725.00 1.47 24.34 3,721.43 -64.01 -68.39 91.65 0.31 3,820.00 1.41 24.15 3,816.40 -61.84 -67.41 89.69 0.06 3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16	3,536.00	1.15	20.20	3,532.47	-67.79	-69.99	94.98	0.26
3,820.00	3,631.00	1.18	23.45	3,627.45	-66.00	-69.27	93.43	0.08
3,914.00 1.26 21.83 3,910.37 -59.82 -66.55 87.91 0.17 4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09	3,725.00	1.47	24.34	3,721.43	-64.01	-68.39	91.65	0.31
4,008.00 1.17 21.20 4,004.35 -57.97 -65.82 86.32 0.10 4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06	3,820.00	1.41	24.15	3,816.40	-61.84	-67.41	89.69	0.06
4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03	3,914.00	1.26	21.83	3,910.37	-59.82	-66.55	87.91	0.17
4,103.00 1.05 25.64 4,099.33 -56.28 -65.09 84.83 0.16 4,197.00 1.52 33.96 4,193.31 -54.47 -64.02 82.97 0.54 4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03	4,008.00	1.17	21.20	4,004.35	-57.97	-65.82	86.32	0.10
4,291.00 1.59 26.71 4,287.28 -52.27 -62.74 80.74 0.22 4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00	4,103.00	1.05	25.64	4,099.33	-56.28	-65.09	84.83	0.16
4,386.00 1.57 26.99 4,382.24 -49.93 -61.56 78.52 0.02 4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99	4,197.00	1.52	33.96	4,193.31	-54.47	-64.02	82.97	0.54
4,480.00 1.51 32.88 4,476.21 -47.74 -60.30 76.31 0.18 4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99	4,291.00	1.59	26.71	4,287.28	-52.27	-62.74	80.74	0.22
4,574.00 1.30 24.15 4,570.18 -45.73 -59.19 74.32 0.32 4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	4,386.00	1.57	26.99	4,382.24	-49.93	-61.56		
4,668.00 1.12 33.33 4,664.16 -43.99 -58.25 72.61 0.28 4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	4,480.00	1.51	32.88	4,476.21	-47.74	-60.30	76.31	0.18
4,762.00 1.61 40.19 4,758.13 -42.21 -56.89 70.53 0.55 4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	4,574.00	1.30	24.15	4,570.18	-45.73	-59.19	74.32	0.32
4,857.00 1.58 39.66 4,853.09 -40.19 -55.20 68.03 0.04 4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	4,668.00	1.12	33.33	4,664.16	-43.99	-58.25	72.61	0.28
4,951.00 1.50 50.17 4,947.06 -38.40 -53.43 65.59 0.31 5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	4,762.00	1.61	40.19	4,758.13	-42.21	-56.89	70.53	0.55
5,045.00 1.15 47.98 5,041.03 -36.98 -51.78 63.45 0.38 5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	4,857.00	1.58	39.66	4,853.09	-40.19	-55.20	68.03	0.04
5,139.00 0.78 52.93 5,135.02 -35.96 -50.57 61.88 0.40 5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37					-38.40			0.31
5,234.00 1.34 65.84 5,230.00 -35.12 -49.04 60.14 0.64 5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37			47.98			-51.78	63.45	0.38
5,328.00 0.56 107.50 5,323.99 -34.81 -47.60 58.74 1.06 5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37	5,139.00	0.78	52.93		-35.96	-50.57	61.88	0.40
5,423.00 0.41 68.79 5,418.99 -34.83 -46.84 58.10 0.37						-49.04	60.14	0.64
	5,328.00	0.56	107.50	5,323.99	-34.81	-47.60	58.74	1.06
5,517.00 0.62 28.52 5,512.98 -34.26 -46.28 57.33 0.43	5,423.00	0.41	68.79	5,418.99	-34.83	-46.84	58.10	0.37
	5,517.00	0.62	28.52	5,512.98	-34.26	-46.28	57.33	0.43

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

6,611.00 0.76 S5.19 S,606.98 -33.30 -45.68 S6.32 0.17 6,705.00 0.31 45.12 5,700.97 -32.62 -45.13 55.50 0.49 5,799.00 0.76 S5.89 S,794.97 -32.62 -45.10 S5.22 -45.30 0.49 5,799.00 0.74 S4.77 6.077.90 -29.28 -39.98 48.83 1.20 6.176.00 0.38 28.86 46 S,717.90 -29.28 -39.98 48.83 1.20 6.271.00 0.54 331.10 6.286.90 -25.56 -39.71 48.77 0.54 6.385.00 0.57 28.55 6,360.90 -27.78 -39.70 48.34 0.57 6.499.00 0.35 33.46 84.49.69 -26.72 -39.64 47.24 0.41 6.554.00 1.15 32.76 6.549.87 -25.28 -38.09 45.57 0.21 6.564.00 0.11 52.56 6,449.69 -25.28 -38.09 45.57 0.21 6.648.00 0.15 52.75 6.549.87 -25.28 -38.09 45.57 0.21 6.686.00 0.16 52.75 6.549.87 -25.28 -38.09 45.57 0.21 6.885.00 0.05 53.77.88 -23.97 -38.04 44.99 0.61 6.885.00 0.76 83.27.83 6.737.88 -23.97 -38.04 44.99 0.61 6.885.00 0.76 83.88 6.88 6.83 1.20 2.25 5 -39.77 45.70 0.05 53.77.88 -23.87 -38.04 44.99 0.61 6.885.00 0.76 83.88 6.83 1.82 2.25 5 -39.77 45.70 0.25 6.89 0.70 6.80 0.70 6.80 0.	Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	_
6,705.00 0.31 49.12 5,709.90 -32.62 -45.13 55.50 0.49 6,789.00 0.76 58.86 5,794.97 -32.14 -44.40 54.63 0.49 5,889.00 1.87 54.11 5,989.96 -31.62 -43.10 50.97 1.11 6,082.00 0.74 54.77 50.77 50.77 30.36 -41.10 50.97 1.11 6,082.00 0.74 54.77 50.77 30.95 -30.18 46.51 1.15 6,271.00 0.54 33.10 6,286.90 -27.78 -39.70 48.34 0.57 6,385.00 0.57 28.58 6,380.90 -27.78 -39.70 48.34 0.57 6,584.00 1.15 32.76 6,549.87 -25.26 -38.09 45.67 0.21 6,684.00 0.11 285.56 6,649.87 -25.26 -38.09 45.16 0.25 6,742.00 0.65 327.63 6,737.86 -23.11 -38.									
5,798.00 0,76 58.88 5,794.97 32.14 -44.40 54.63 0.49 5.894.00 0.95 75.82 5,889.96 3.162 43.10 53.24 0.33 5,988.00 1.87 54.11 5,983.03 -41.10 50.97 1.11 50									
5,894.00 0,95 75.82 5,889.96 -31.62 43.10 53.24 0.33 5,988.00 1.87 64.11 5,983.83 -30.53 41.10 50.97 1.11 6,082.00 0.74 64.17 5,983.83 -30.53 41.10 50.97 1.11 6,082.00 0.74 64.77 60.77.90 -29.28 -39.38 48.83 1.20 6,176.00 0.54 331.10 6,265.00 -29.68 -39.18 48.51 1.15 6,271.00 0.54 331.10 6,265.00 -28.68 -39.71 48.77 0.54 6.365.00 0.57 28.58 6.360.80 -27.78 -39.70 48.34 0.57 6,469.00 0.55 32.76 6,459.00 -27.78 -39.70 48.34 0.57 6,469.00 0.85 33.46 6.454.89 -26.72 -39.04 47.24 0.41 6,554.00 1.15 32.76 6,549.87 -25.26 38.09 45.67 0.21 6,649.00 0.11 265.56 6,843.86 -24.44 -37.67 44.88 1.26 6,649.00 0.65 32.76 3,673.66 -24.44 -37.67 44.88 1.26 6,649.00 0.65 32.76 3,673.66 -23.11 -38.80 45.67 0.21 6,649.00 0.65 32.76 3,673.66 -23.11 -38.80 45.67 0.21 6,649.00 0.65 32.76 3,673.66 -23.11 -38.80 45.67 0.23 6,831.00 0.22 265.41 6,502.65 -22.55 -39.77 45.70 0.34 7.025.00 0.90 189.49 7.020.84 -22.13 -40.38 46.52 1.23 7.120.00 0.38 78.35 7.115.44 -22.80 -40.16 48.70 1.16 7.24 0.00 0.55 5.27 3.70 5.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	•								
\$ 5,886.00				5,194.91	-32.14	-44.40	54.63	0.49	
6,082.00 0 0.74 54.77 6,077.90 2-29.28 -39.38 49.83 1.20 6.178.00 0.38 266.46 6,171.90 -28.95 -39.19 48.51 1.15 6.271.00 0.54 331.00 6,286.90 -28.58 -39.17 48.77 0.54 6.365.00 0.55 28.58 6,380.90 -27.78 -39.70 49.34 0.57 6.459.00 0.95 33.46 8,454.89 -26.72 -39.04 47.24 0.41 6.554.00 1.15 32.76 6,549.87 -25.56 -38.09 45.67 0.21 6.564.00 0.11 285.56 6,643.88 -23.97 -38.04 44.96 0.61 6.646.00 0.11 285.56 6,643.88 -23.97 -38.04 44.96 0.61 6.549.00 0.65 32.76 8,549.87 -25.56 -38.09 45.67 0.21 6.549.00 0.65 32.76 8,549.87 -22.55 -39.77 -38.04 44.98 0.61 6.549.00 0.65 32.76 8,549.88 -23.11 -38.80 45.16 0.25 6.593.10 0.62 286.41 6,737.86 -23.11 -38.80 45.16 0.25 6.593.10 0.62 286.41 6,702.00 0.77 1.15.40 0.70 1.15 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20			75.82	5,889.96	-31.62	-43.10	53.24	0.33	
6,776.00 0.84 286.46 8,171.90 -28.85 -38.18 45.51 1.15 6,271.00 0.84 331.10 6,286.90 -28.88 -38.71 48.77 0.84 48.77 0.84 6,385.00 0.57 28.58 6,380.90 -27.78 39.70 48.34 0.57 6,459.00 0.95 33.46 6.454.89 -26.72 39.04 47.24 0.41 0.41 0.45 6,459.00 0.95 33.46 6.454.89 -26.72 39.04 47.24 0.41 0.41 0.45 6,459.00 0.95 33.46 6.454.89 -26.72 39.04 47.24 0.41 0.41 0.45 6,459.00 0.11 285.56 6.843.86 -24.44 37.57 44.88 1.26 6,742.00 0.65 327.63 6,737.86 -23.97 38.04 44.96 0.65 0.61 0.45 6,459.00 0.76 310.98 6,331.86 -23.11 38.80 45.16 0.25 0.25 0.38 0.00 0.62 286.41 6.926.85 -22.55 39.77 45.70 0.34 0.25 0.00 0.82 286.41 6.926.85 -22.55 39.77 45.70 0.34 0.25 0.00 0.82 286.41 6.926.85 -22.55 39.77 45.70 0.34 0.25 0.00 0.80 188.49 7.020.84 -23.13 40.38 48.52 1.23 7.120.00 0.39 78.35 7.115.84 -23.30 40.18 46.70 1.16 7.214.00 0.84 52.77 7.209.83 -23.32 39.33 44.5.72 0.55 7.308.00 0.65 55.73 7.303.83 -22.59 38.34 44.50 0.21 7.492.00 0.84 57.79 7.397.82 -22.10 37.42 43.45 0.14 7.492.00 0.77 68.11 7.492.81 21.88 0.21 37.42 43.45 0.14 7.591.00 0.75 68.09 7.586.80 -21.19 36.17 41.07 0.02 7.685.00 0.89 54.58 7.680.77 -18.22 31.41 36.30 0.25 7.7780.00 0.84 43.89 7.774.78 -19.62 32.94 33.34 0.18 7.797.00 0.77 68.11 7.492.81 1.878 32.04 34.13 36.30 0.29 7.7868.00 0.89 54.58 7.880.77 -18.22 31.41 36.30 0.29 7.7868.00 0.89 54.58 7.880.77 -17.48 1.962 32.94 33.34 0.18 7.7870.00 0.75 68.09 7.5868.80 2.119 36.77 31.12 35.87 0.25 7.7780.00 0.84 43.89 7.774.78 1.962 32.94 33.34 0.18 7.7870.00 0.77 68.11 7.492.81 1.876.77 1.72.9 30.67 35.19 0.57 0.25 0.25 0.25 0.25 0.28 0.29 0.38 44.12 7.88378 1.18 0.22 0.34 1.18 36.00 0.29 0.38 44.12 7.88378 1.18 0.22 0.34 1.19 36.77 1.17.29 30.67 35.19 0.57 0.25 0.25 0.28 0.29 0.38 0.38 0.38 0.38 0.29 0.38 0.38 0.38 0.29 0.38 0.38 0.29 0.38 0.38 0.29 0.38 0.38 0.29 0.38 0.39 0.37 0.25 0.38 0.39 0.37 0.25 0.38 0.39 0.37 0.38 0.39 0.37 0.32 0.38 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.30 0.30						-41.10	50.97	1.11	
6,271.00 0.54 331.10 6,266.90 -28.58 -38.71 48.77 0.84 6,365.00 0.57 28.58 6,360.00 -27.78 39.70 48.34 0.57 6,459.00 0.95 33.46 6,454.69 -26.72 39.04 47.24 0.41 6,554.00 1.15 32.76 6,549.87 -25.28 38.09 47.24 0.41 6,554.00 1.15 285.56 6,443.66 -24.44 37.67 44.88 12.66 6,742.00 0.65 327.63 6,737.86 -23.97 38.04 44.96 0.61 6,338.00 0.76 310.98 6,831.86 -23.11 38.80 45.16 0.25 6,931.00 0.62 286.41 6,926.85 -22.55 39.77 45.70 0.34 7,025.00 0.90 188.49 7,020.84 -23.13 40.38 46.52 12.3 7,120.00 0.39 78.35 7,115.84 -23.80 40.18 46.70 1.16 7,214.00 0.84 52.17 7,208.83 -23.32 39.33 45.72 0.55 7,308.00 0.65 55.73 7,303.83 -22.59 38.34 44.50 0.21 7,497.00 0.77 68.11 7,492.81 -21.66 36.33 42.30 0.14 7,497.00 0.77 68.11 7,492.81 -21.66 36.33 42.30 0.14 7,991.00 0.75 68.09 7,586.80 -21.19 35.17 41.07 7,788.00 0.89 54.58 7,774.78 -19.62 32.94 33.34 0.18 7,774.00 0.84 43.69 7,774.78 -19.62 32.94 33.34 0.18 7,774.00 0.84 43.69 7,774.78 -19.62 32.94 33.34 0.18 7,786.00 0.89 54.58 7,786.79 -20.54 34.01 39.73 0.25 7,786.00 0.84 43.69 7,774.78 -19.62 32.94 33.34 0.18 7,787.00 0.75 68.09 7,586.80 -21.19 35.17 41.07 0.02 7,888.00 0.89 54.58 7,786.79 -20.54 34.01 39.73 0.25 7,788.00 0.89 54.58 7,786.79 -10.62 32.94 33.34 0.18 7,787.00 0.75 68.09 7,586.80 -21.19 35.17 41.07 0.22 7,888.00 0.38 44.12 7,883.77 -18.22 31.41 36.30 0.29 8,062.00 0.18 26.82 8,057.77 -17.86 31.12 35.87 0.23 8,156.00 0.71 41.92 36.86 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.74 41.92 36.88 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.79 37.79 4,347.74 -15.20 -27.79 31.80 0.37 8,545.00 0.79 351.18 8,966.66 -19.04 -20.62 27.52 0.28 9,065.00 0.79 351.18 8,966.66 -19.04 -20.62 27.52 0.28 9,098.00 0.42 18.52 7,964.59 -13.84 -22.22 27.00 2.26 27.90 0.36 9,775.00 0.79 351.18 9,265.64 -19.07 -22.46 22.99 0.14 9,645.00 0.79 351.18 9,265.64 -19.07 -22.46 22.99 0.14 9,645.00 0.79 351.18 9,265.64 -19.07 -22.26 27.90 0.14 9,645.00 0.79 351.18 9,265.64 -19.07 -22.26 27.90 0.14 9,945.00 0.23 234.70 9,640.59 -13.84 -23.89 27.17 1.65 9,740.00 0.59 346.25 9,189.65 -15.38 -19.				•	-29.28	-39.36	48.83	1.20	
6,365.00 0.57 28.58 6,360.90 27.78 39.70 46.34 0.57 6,459.00 0.95 33.46 6,454.89 26.72 39.04 47.24 0.41 0.57 6,554.00 1.15 32.76 6,549.07 25.26 38.09 45.67 0.21 1.265.56 6,543.86 24.44 37.67 0.21 1.265.56 6,643.86 23.97 38.09 45.67 0.21 1.265.56 6,643.86 23.97 38.09 45.67 0.21 1.265.56 6,643.86 23.97 38.09 45.67 0.21 1.265.56 6,643.86 23.97 38.09 45.67 0.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26						-39.18	48.51	1.15	
6,559.00	6,271.00	0.54	331.10	6,266.90	-28.58	- 39.71	48.77	0.54	
6,459.00 0.95 33.46 6,454.89 2.672 39.04 47.24 0.41 6,556 0.556 6,558.00 1.15 32.76 6,549.87 2.55.66 38.00 45.67 0.21 6,648.00 0.11 265.58 6,643.86 2.444 37.67 44.88 1.26 0.61 327.63 6,737.86 23.97 38.04 44.98 0.61 0.61 0.61 0.65 327.63 6,737.86 23.97 38.04 44.98 0.61 0.61 0.61 0.62 266.41 6,926.85 22.55 38.77 45.70 0.34 45.70 0.34 7.025.00 0.90 189.49 7,020.84 23.13 40.38 45.52 1.23 7.120.00 0.39 78.35 7,115.84 23.80 40.18 46.70 1.16 7.214.00 0.84 52.17 7,200.83 223.32 39.33 45.72 0.55 7.308.00 0.65 55.73 7,303.83 22.259 38.34 44.50 0.21 7.407.00 0.64 67.79 7,397.82 22.10 37.42 43.45 0.14 7.497.00 0.77 68.00 7.75 68.00 2.71 7.498.00 0.77 68.00 0.77 68.00 7.588.00 22.119 35.77 41.07 0.02 7.885.00 0.99 43.89 7.714.78 19.62 33.24 34.01 39.73 0.25 7.786.00 0.84 43.69 7.774.78 19.62 32.04 37.13 39.73 0.25 7.786.00 0.38 43.69 7.774.78 11.87 3.28 2.20 43 30.34 0.18 37.30 0.25 7.885.00 0.38 43.69 7.774.78 11.86 31.12 3.57 7.99.00 0.75 68.00 7.7868.07 9.20.54 2.32 2.32 31.41 38.30 0.18 7.7874.00 0.65 61.02 7.885.87 1.88 32.04 37.13 0.22 7.885.00 0.38 43.12 7.885.77 18.22 3.14 38.30 0.18 3.34 0.18 3.34 0.18 3.35 3.34 3.34 0.18 3.35 3.34 3.34 3.34 0.18 3.35 3.34 3.34 3.34 3.34 3.34 3.34 3.34	6,365.00	0.57	28.58	6,360.90	-27.78	- 39.70	48.34	0.57	
6,648.00 0 0.11 285.56 6,643.86 -24.44 37.67 44.88 1.26 6,742.00 0.65 327.83 6,737.86 -23.97 38.04 44.98 0.61 0.61 0.65 6,332.00 0.76 310.98 6,831.86 23.11 38.80 45.16 0.25 6,831.00 0.62 286.41 6,926.85 -22.55 39.77 45.70 0.34 7.025.00 0.90 189.49 7,020.84 -23.13 40.38 46.52 1.23 7.120.00 0.39 78.35 7,115.84 -23.80 40.18 46.70 1.16 7.214.00 0.84 52.17 7,200.83 -23.32 39.33 45.72 0.55 7.308.00 0.65 55.73 7,303.83 -22.59 38.34 44.50 0.21 7,402.00 0.64 67.79 7,397.82 -22.10 37.42 43.45 0.14 7,497.00 0.77 68.09 7,386.80 -21.19 35.17 41.07 0.02 7,685.00 0.89 54.58 7,868.79 -20.54 34.01 39.73 0.25 7,778.00 0.84 43.69 7,774.78 1.87 2.20 43.41 39.73 0.25 7,786.00 0.89 43.89 7,774.78 1.87 2.20 43.41 39.73 0.22 7,988.00 0.38 44.12 7,985.77 18.22 31.41 38.30 0.29 38.86.20 0.18 2.66 2.67 7.71 18.22 31.41 38.30 0.29 38.86.20 0.18 2.68 2.67 7.77 17.29 30.67 35.19 0.57 38.86 0.29 38.86 0.20 3.88 3.84 3.80 0.29 38.86 0.20 0.16 36.68 2.66 7.79 3.86 3.70 1.20 35.68 3.70 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.70 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.8	6,459.00	0.95	33.46	6,454.89	-26.72	-39.04	47.24		
6,648.00 0.11 285.56 6,648.86 224.44 37.67 44.88 1.26 6,742.00 0.65 327.63 6,737.86 23.97 3.80.4 44.96 0.61 6,838.00 0.76 310.98 6,831.86 23.11 3.80.0 45.16 0.25 6,831.00 0.62 286.41 6,926.85 22.55 3.977 45.70 0.34 7.025.00 0.90 189.49 7,020.84 22.313 40.38 46.52 1.23 7,120.00 0.39 78.35 7,115.84 23.80 40.18 46.70 1.16 7.7214.00 0.44 52.17 7,200.83 23.32 389.33 45.72 0.55 7.308.00 0.64 67.79 7,397.82 22.10 38.44 44.50 0.21 7,402.00 0.64 67.79 7,397.82 22.10 38.44 44.50 0.21 7,402.00 0.77 68.11 7,492.81 21.66 36.33 42.30 0.14 7,497.00 0.77 68.11 7,492.81 21.66 36.33 42.30 0.14 7,970.00 0.89 64.58 7,868.07 20.54 34.01 39.73 0.25 7,7885.00 0.89 64.58 7,868.07 20.54 34.01 39.73 0.25 7,7866.00 0.80 64.58 7,868.07 20.54 34.01 39.73 0.25 7,7866.00 0.38 44.12 7,983.77 18.22 3.31 43.30 0.18 7,767.00 0.55 51.02 7,868.78 18.77 18.22 3.31 43.30 0.29 8.866.00 0.31 28.62 8,057.77 17.66 3.31 12.35 67 0.23 8,156.00 0.71 41.92 8,151.77 17.29 30.67 35.19 0.57 8.89 8.80 1.20 1.02 8,561.77 17.29 30.67 35.19 0.57 8.81 0.57 8.80 0.79 1.02 8,361.70 1.02 8,361.70 1.02 8,361.70 1.02 8,362.70 1.03 8.84 0.07 1.02 8,362.70 1.02 8,362.70 1.03 8.84 0.07 1.02 8,362.70 1.03 8.84 0.07 1.03 8.84	6,554.00	1.15	32.76	6,549.87	-25.26	-38.09	45.67		
6,742.00	6,648.00	0.11	285.56	6,643.86	-24.44	- 37.67	44.88		
6,931 00 0.62 286.41 6,926.85 -22.55 -39.77 45.70 0.34 7.025.00 0.90 189.49 7.020.84 -23.13 -40.38 46.52 1.23 7.120.00 0.39 76.35 7.115.84 -23.80 -40.18 46.70 1.16 7.214.00 0.84 52.17 7.209.83 -23.32 -39.33 45.72 0.55 7.308.00 0.65 55.73 7.303.83 -22.59 -38.34 44.50 0.21 7.402.00 0.64 67.79 7.397.82 -22.10 -37.42 43.45 0.14 7.497.00 0.77 68.11 7.492.81 -21.66 -36.33 42.30 0.14 7.497.00 0.77 68.11 7.492.81 -21.66 -36.33 42.30 0.14 7.591.00 0.75 68.09 7.566.80 -21.19 -35.17 41.07 0.02 7.685.00 0.89 54.58 7.680.79 -20.54 -34.01 39.73 0.25 7.790.00 0.84 43.89 7.774.78 -19.62 -32.94 38.34 0.18 7.874.00 0.55 51.02 7.869.78 -18.78 -32.04 37.13 0.22 7.868.00 0.38 44.12 7.863.77 -18.22 -31.41 36.30 0.29 8.062.00 0.18 26.62 8.057.77 -17.66 -31.12 35.67 0.23 8.1560.00 0.71 41.92 8.151.77 -17.29 -30.67 35.19 0.57 8.349.00 0.71 41.92 8.151.77 -17.29 -30.67 31.80 0.57 8.349.00 0.71 41.92 8.151.77 -17.29 -30.67 31.80 0.57 8.349.00 0.71 41.92 8.151.77 -17.29 -30.67 31.80 0.57 8.349.00 0.71 41.92 8.151.77 -17.29 -30.67 31.80 0.37 8.349.00 0.74 7.79 8.340.79 8.340.79 -15.44 -28.94 32.75 0.83 8.439.00 0.76 7.79 8.434.74 1.52 0.29 4.383.40 0.37 8.539.00 0.44 81.27 8.340.75 -15.44 -28.94 32.75 0.83 8.439.00 0.76 7.79 8.434.74 1.52 0.29 4.39 32.75 0.83 8.439.00 0.76 7.79 8.434.74 1.52 0.29 4.39 32.75 0.83 8.439.00 0.78 7.79 8.434.74 1.52 0.29 4.39 32.75 0.83 8.439.00 0.78 7.79 8.434.74 1.52 0.29 4.39 32.75 0.83 8.439.00 0.78 7.79 8.434.74 1.52 0.29 4.39 32.75 0.83 8.439.00 0.78 7.79 8.434.74 1.52 0.29 2.79 0.36 8.910.00 1.08 104.68 8.623.71 1.52 0.24.71 2.90.1 0.32 2.79 0.36 8.910.00 1.33 1.33.88 8.811.88 1.75 -15.44 2.29 4 32.75 0.83 8.910.00 1.33 1.33.88 8.811.88 1.75 -15.44 2.29 4 32.75 0.83 8.910.00 1.33 1.33.88 8.811.88 1.75 -15.44 2.29 4 32.75 0.83 8.910.00 1.33 1.33.88 8.811.88 1.75 -15.44 2.29 4 32.75 0.83 8.910.00 1.33 1.33.88 8.811.88 1.75 -15.44 2.29 4 32.75 0.83 0.37 3.80 0.37 3.80 0.38 0.38 0.38 0.38 0.38 0.38 0.38	6,742.00	0.65	327.63	6,737.86	-23.97	-38.04	44.96	0.61	
7,025,00 0.90 188.49 7,020.84 -23.13 -40.38 46.52 1.23 7,120.00 0.39 78.35 7,115.84 -23.80 -40.18 46.70 1.116 7,214.00 0.84 52.17 7,209.83 -23.32 -39.33 45.70 0.55 7,308.00 0.85 55.73 7,303.83 -22.59 -38.34 44.50 0.21 7,402.00 0.64 67.79 7,397.82 -22.10 -37.42 43.45 0.14 7,497.00 0.77 68.11 7,492.81 -21.66 -36.33 42.30 0.14 7,497.00 0.75 68.09 7,586.80 -21.19 -35.17 41.07 0.02 7,685.00 0.89 54.58 7,680.79 -20.54 -34.01 39.73 0.25 7,779.00 0.84 43.69 7,774.78 1-19.62 -32.94 38.34 0.18 7,874.00 0.85 51.02 7,689.78 -18.78 -32.04 37.13 0.22 7,968.00 0.38 44.12 7,963.77 -17.29 -30.67 35.19 0.57 8,566.00 0.71 41.92 8,151.77 17.29 -30.67 35.19 0.57 8,251.00 0.71 41.92 8,151.77 17.29 -30.67 35.19 0.57 8,251.00 0.71 41.92 8,151.77 17.29 -30.67 35.19 0.57 8,251.00 0.71 41.92 8,343.74 -15.20 -27.97 31.80 0.37 8,434.00 0.78 73.79 8,434.74 15.20 -27.97 31.80 0.37 8,434.00 0.78 73.79 8,434.74 15.20 -27.97 31.80 0.37 8,533.00 0.78 73.79 8,434.74 15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,533.00 1.08 104.68 8,623.71 15.50 -26.47 30.41 0.40 8,533.00 1.08 104.68 8,623.71 15.50 -26.47 30.41 0.40 0.32 8,722.00 1.04 142.55 8,717.70 16.10 -23.33 28.30 0.73 8,810.00 1.33 133.88 8,811.68 175.44 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 190.44 9,005.00 0.42 195.42 9,005.00 0.56 255.70 9,000.65 19.88 -20.32 -21.06 28.54 0.54 9,005.00 0.42 195.42 9,004.65 190.46 9,005.00 0.42 195.42 9,004.65 190.46 9,005.00 0.42 195.42 9,004.65 190.84 10.00 1.33 133.88 8,811.68 175.44 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 190.44 9,005.00 0.42 195.42 9,004.65 190.84 10.40 9.22 4.71 2.84 2.89 9,005.00 0.56 255.70 9,000.65 190.88 -17.69 -21.50 27.55 0.26 9,005.00 0.56 255.70 9,000.65 190.88 -20.32 27.96 0.28 9,005.00 0.56 255.70 9,000.65 190.88 -20.52 27.85 1.54 9,005.00 0.42 195.42 9,005.65 190.88 -20.52 27.85 1.54 9,005.00 0.42 195.42 9,005.65 190.88 -20.52 27.85 1.54 9,005.00 0.42 195.42 9,005.65 190.88 -20.52 27.65 0.26 9,005.00 0.42 195.42 9,005.65 190.88 1.00.22 1.00.22 1.00 2.24 1.10 2.24 1.11 1.11	6,836.00	0.76	310.98	6,831.86	-23.11	-38.80	45.16	0.25	
7,120.00 0.99 78.35 7,115.84 -23.80 -40.18 46.70 1.16 7,214.00 0.84 52.17 7,209.83 -23.32 -39.33 45.72 0.55 7,308.00 0.85 55.73 7,303.83 -22.59 -38.34 44.50 0.21 7,402.00 0.64 67.79 7,397.62 -22.10 -37.42 43.45 0.14 7,497.00 0.77 68.11 7,492.81 -21.66 -36.33 42.30 0.14 7,591.00 0.75 68.09 7,566.80 -21.19 -35.17 41.07 0.02 7,685.00 0.89 54.58 7,680.79 -20.54 -34.01 39.73 0.25 7,779.00 0.84 43.89 7,774.78 -19.62 -32.94 38.34 0.18 7,874.00 0.85 51.02 7,689.78 -18.78 -32.04 37.13 0.22 7,988.00 0.38 44.12 7,963.77 -18.22 -31.41 36.30 0.29 8,082.00 0.18 28.62 8,087.77 -17.86 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.35 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.50 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.20 -27.97 31.80 0.37 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.88 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 0.26 9,099.00 0.42 195.42 9,004.65 -20.32 -21.66 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.99 361.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.99 361.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.99 361.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.99 361.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.99 361.18 9,938.57 -15.88 -22.49 27.46 1.33 9,930.00 0.10 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 24.70 9,799.55 -15.63 -21.11 28.15 0.88 0,000.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.55 -15.53 -15.40 -22.29 27.86 1.33 9,932.00 1.12 76.81 9,927.55 -15.53 -15.40 -22.99 27.46 1.33	6,931.00	0.62	286.41	6,926.85	-22.55	-39.77	45.70		
7,120,00 0.39 78.35 7,115.84 -23.80 -40.18 46.70 1.16 7,214.00 0.84 52.17 7,209.83 -23.32 -39.33 45.72 0.55 73.308.00 0.55 55.73 7,303.83 -22.59 -38.34 44.50 0.21 7,402.00 0.64 67.79 7,397.82 -22.10 -37.42 43.45 0.14 7,497.00 0.77 68.11 7,492.81 -21.66 -36.33 42.30 0.14 7,591.00 0.75 68.09 7,586.80 -21.19 -35.17 41.07 0.02 7,685.00 0.89 54.58 7,680.79 -20.54 -34.01 39.73 0.25 7,799.00 0.84 43.69 7,774.78 -19.62 -32.94 38.34 0.18 7,874.00 0.65 51.02 7,869.78 -18.78 -32.04 37.13 0.22 7,968.00 0.38 44.12 7,963.77 -18.22 -31.41 36.30 0.29 8,062.00 0.18 28.62 8,057.77 -17.66 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8.251.00 1.02 35.66 8,246.76 16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.79 31.80 0.37 8,533.00 1.08 84.0 8,528.71 -15.20 -24.71 29.01 0.32 8,722.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,910.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,999.00 0.42 255.70 9,006.65 -19.04 -20.32 3.33.00 0.89 6.86 9,378.63 -17.69 -22.24 2.29 27.85 1.54 9,909.00 0.42 255.70 9,000.65 -19.88 -20.52 27.85 0.26 9,777 0.10 0.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.85 27.00 0.72 27.85 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.00 0.89 6.86 9,3	7,025.00	0.90	189.49	7,020.84	-23.13	-40.38	46.52	1.23	
7,214,00 0.84 52.17 7,209.83 -23.32 -39.33 45.72 0.55 7,308,00 0.65 55.73 7,308.83 -22.59 -38.34 44,50 0.21 7,402,00 0.64 67.79 7,397.82 -22.10 -37.42 43.45 0.14 7,497.00 0.75 68.11 7,492.81 -21.66 -36.33 42.30 0.14 7,695.00 0.89 54.58 7,680.79 -20.54 -34.01 39.73 0.25 7,779.00 0.84 43.69 7,774.78 -19.62 -32.94 38.34 0.18 7,874.00 0.65 51.02 7,868.78 -18.78 -32.04 37.13 0.22 7,988.00 0.38 44.12 7,983.77 -18.22 -31.11 36.30 0.29 8,062.00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156.00 1.07 41.92 8,151.77 -17.29 -30.67 <	7,120.00	0.39	78.35	7,115.84	-23.80	-40.18	46.70		
7,402.00 0.64 67.79 7,397.82 -22.10 37.42 43.45 0.14 7,497.00 0.77 68.11 7,492.81 -21.66 36.33 42.30 0.14 7,591.00 0.75 68.09 7,586.80 -21.19 35.17 41.07 0.02 7,685.00 0.89 54.58 7,680.79 -20.54 34.01 39.73 0.25 7,779.00 0.84 43.69 7,774.78 -19.62 32.94 38.34 0.18 7,874.00 0.65 51.02 7,893.78 -18.78 32.04 37.13 0.22 7,968.00 0.38 44.12 7,963.77 -18.22 31.41 36.30 0.29 8,062.00 0.18 26.62 8,057.77 -17.86 31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,806.86 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.86 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,188.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,388.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.18 9,838.00 0.59 84.33 9,378.63 -11.60 -22.32 27.79 1.65 9,744.00 1.22 163.70 9,739.58 -14.40 -22.85 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 9.39 24.55 0.25 10,102.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	7,214.00	0.84	52.17	7,209.83	-23.32	-39.33	45.72		
7,497,00 0,77 68.11 7,492.81 -21.66 3-6.33 42.30 0,14 7,591.00 0,75 68.09 7,586.80 -21.19 3-5.17 41.07 0.02 7,685.00 0.89 54.58 7,680.79 -20.54 34.01 39.73 0,25 7,779.00 0.84 43.69 7,774.78 -19.62 32.94 38.34 0,18 7,874.00 0.65 51.02 7,869.78 -18.22 31.41 36.30 0,29 8,062.00 0.18 26.62 8,057.77 -18.22 31.41 36.30 0,29 8,062.00 0.18 26.62 8,057.77 -17.66 31.12 35.87 0,23 8,156.00 0.71 41.92 8,151.77 -17.29 30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 1-16.17 -29.78 33.85 0,34 8,345.00 0.44 81.27 8,340.75 -15.44 28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 27.797 31.80 0.37 8,533.00 1.08 88.40 8,528.73 1-5.00 26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 23.33 28.30 0,73 8,816.00 1.33 133.88 8,811.68 -17.54 22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 1-19.04 20.65 27.52 0.28 9,005.00 0.56 25.57 0 9,006.65 1-19.04 20.65 27.52 0.28 9,090.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 1-19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 39,378.83 1-7.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 1-16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 1-14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 1-15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.58 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.58 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,012.55 -15.50 -15.40 -17.90 23.28 0.20	7,308.00	0.65	55.73	7,303.83	-22.59	-38.34	44.50	0.21	
7,497.00 0.75 68.11 7,492.81 -21.66 3-63.33 42.30 0.14 7,591.00 0.75 68.09 7,586.80 -21.19 3-51.77 41.07 0.02 7,685.00 0.89 54.58 7,680.79 -20.54 3-4.01 39.73 0.25 7,779.00 0.84 43.69 7,774.78 -19.62 32.94 38.34 0.18 7,874.00 0.65 51.02 7,869.78 -18.78 32.04 37.13 0.22 7,988.00 0.38 44.12 7,963.77 -17.86 31.12 35.87 0.23 8,062.00 0.18 26.62 8,057.77 -17.86 31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 30.67 35.19 0.57 8.345.00 0.71 41.92 8,151.77 -17.29 30.67 35.19 0.57 8.345.00 0.44 81.27 8,340.75 -15.44 28.94 32.75 0.83 8.439.00 0.78 73.79 8,434.74 -15.20 2.79.77 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 26.47 30.41 0.40 8.628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8.72 0.38 8,818.00 1.33 133.88 8,811.88 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9.005.00 0.56 255.70 9,000.65 19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,999.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,999.00 0.29 348.23 9,326.59 -14.40 -22.84 26.99 0.14 9,944.00 0.59 348.25 9,386.59 -14.40 -22.84 26.99 0.14 9,945.00 0.29 333.08 9,378.63 -17.58 -22.02 27.92 0.36 9,477.00 1.20 333.08 9,378.63 -19.07 -21.48 28.26 0.22 9,383.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.59 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,378.63 -17.59 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,378.63 -17.58 -22.02 27.46 1.18 9,838.00 0.59 84.33 9,383.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,997.56 -15.63 -21.11 26.15 0.58 10.027.00 0.98 87.28 10.012.55 -15.50 -15.60 -17.90 23.28 0.20	7,402.00	0.64	67.79	7,397.82	-22.10	-37.42	43.45	0.14	
7,685.00 0.89 54.58 7,680.79 -20.54 -34.01 39.73 0.25 7,779.00 0.84 43.69 7,774.78 -19.62 -32.94 38.34 0.18 7,874.00 0.65 51.02 7,869.78 -18.78 -32.04 37.13 0.22 7,988.00 0.38 44.12 7,983.77 -18.22 -31.41 36.30 0.29 8,062.00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.53 -19.39 24.55 0.25 10,027.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	7,497.00	0.77	68.11	7,492.81	-21.66	-36.33	42.30		
7,685.00 0.89 54.58 7,680.79 -20.54 -34.01 39.73 0.25 7,779.00 0.84 43.69 7,774.78 -19.62 -32.94 38.34 0.18 7,874.00 0.65 51.02 7,868.78 -18.78 -32.04 37.13 0.22 7,988.00 0.38 44.12 7,983.77 -18.22 -31.41 36.30 0.29 8,062.00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 <	7,591.00	0.75	68.09	7,586.80	-21.19	-35.17			
7,874.00 0.65 51.02 7,869.78 -18.78 -32.04 37.13 0.22 7,968.00 0.38 44.12 7,963.77 -18.22 -31.41 36.30 0.29 8,062.00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 26.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,006.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 33.30 8,308.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.40 -22.84 26.99 0.14 9,645.00 0.29 84.33 9,833.57 -15.68 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	7,685.00	0.89	54.58	7,680.79	-20.54	-34.01	39.73		
7,874,00 0.65 51.02 7,869.78 -18.78 -32.04 37.13 0.22 7,968,00 0.38 44.12 7,963.77 -18.22 -31.41 36.30 0.29 8,062,00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156,00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33	7,779.00	0.84	43.69	7,774.78	-19.62	-32.94	38.34	0.18	
7,968.00 0.38 44.12 7,963.77 -18.22 -31.41 36.30 0.29 8,062.00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02	7,874.00	0.65	51.02	7,869.78	-18.78	-32.04			
8,062.00 0.18 26.62 8,057.77 -17.86 -31.12 35.87 0.23 8,156.00 0.71 41.92 8,151.77 -17.29 -30.67 35.19 0.57 8,251.00 1.02 35.66 8,246.76 -16.17 -29.78 33.85 0.34 8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.06 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,006.65 -19.88 -20.52 27.86 1.54 9,099.00 0.42 195.42 9,04.65	7,968.00	0.38	44.12	7,963.77	-18.22	-31.41	36.30		
8,251.00	8,062.00	0.18	26.62	8,057.77	-17.86	-31.12	35.87	0.23	
8,345.00 0.44 81.27 8,340.75 -15.44 -28.94 32.75 0.83 8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,006.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 <td>8,156.00</td> <td>0.71</td> <td>41.92</td> <td>8,151.77</td> <td>-17.29</td> <td>-30.67</td> <td>35.19</td> <td>0.57</td> <td></td>	8,156.00	0.71	41.92	8,151.77	-17.29	-30.67	35.19	0.57	
8,439.00 0.78 73.79 8,434.74 -15.20 -27.97 31.80 0.37 8,533.00 1.08 88.40 8,528.73 -15.00 -26.47 30.41 0.40 8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,966.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,333.00 0.89 6.86 9,378.63	8,251.00	1.02	35.66	8,246.76	-16.17	-29.78	33.85	0.34	
8,533.00	8,345.00	0.44	81.27	8,340.75	-15.44	-28.94	32.75	0.83	
8,628.00 1.08 104.68 8,623.71 -15.20 -24.71 29.01 0.32 8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 <td>8,439.00</td> <td>0.78</td> <td>73.79</td> <td>8,434.74</td> <td>-15.20</td> <td>-27.97</td> <td>31.80</td> <td>0.37</td> <td></td>	8,439.00	0.78	73.79	8,434.74	-15.20	-27.97	31.80	0.37	
8,722.00 1.04 142.55 8,717.70 -16.10 -23.33 28.30 0.73 8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 <td>8,533.00</td> <td>1.08</td> <td>88.40</td> <td>8,528.73</td> <td>-15.00</td> <td>-26.47</td> <td>30.41</td> <td>0.40</td> <td></td>	8,533.00	1.08	88.40	8,528.73	-15.00	-26.47	30.41	0.40	
8,816.00 1.33 133.88 8,811.68 -17.54 -22.02 27.92 0.36 8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 <td>8,628.00</td> <td>1.08</td> <td>104.68</td> <td>8,623.71</td> <td>-15.20</td> <td>-24.71</td> <td>29.01</td> <td>0.32</td> <td></td>	8,628.00	1.08	104.68	8,623.71	-15.20	-24.71	29.01	0.32	
8,911.00 1.13 141.83 8,906.66 -19.04 -20.65 27.52 0.28 9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 <td>8,722.00</td> <td>1.04</td> <td>142.55</td> <td>8,717.70</td> <td>-16.10</td> <td>-23.33</td> <td>28.30</td> <td>0.73</td> <td></td>	8,722.00	1.04	142.55	8,717.70	-16.10	-23.33	28.30	0.73	
9,005.00 0.56 255.70 9,000.65 -19.88 -20.52 27.85 1.54 9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56	8,816.00	1.33	133.88	8,811.68	-17.54	-22.02	27.92	0.36	
9,099.00 0.42 195.42 9,094.65 -20.32 -21.06 28.54 0.54 9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 <td>8,911.00</td> <td>1.13</td> <td>141.83</td> <td>8,906.66</td> <td>-19.04</td> <td>-20.65</td> <td>27.52</td> <td>0.28</td> <td></td>	8,911.00	1.13	141.83	8,906.66	-19.04	-20.65	27.52	0.28	
9,194.00 0.59 346.25 9,189.65 -20.18 -21.27 28.65 1.03 9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 <td>9,005.00</td> <td>0.56</td> <td>255.70</td> <td>9,000.65</td> <td>-19.88</td> <td>-20.52</td> <td>27.85</td> <td>1.54</td> <td></td>	9,005.00	0.56	255.70	9,000.65	-19.88	-20.52	27.85	1.54	
9,288.00 0.79 351.18 9,283.64 -19.07 -21.48 28.26 0.22 9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,099.00	0.42	195.42	9,094.65	-20.32	-21.06	28.54	0.54	
9,383.00 0.89 6.86 9,378.63 -17.69 -21.50 27.55 0.26 9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,194.00	0.59	346.25	9,189.65	- 20.18	-21.27	28.65	1.03	
9,477.00 1.20 333.08 9,472.62 -16.09 -21.85 27.03 0.72 9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,288.00	0.79	351.18	9,283.64	-19.07	-21.48	28.26	0.22	
9,571.00 1.19 326.58 9,566.59 -14.40 -22.84 26.99 0.14 9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,383.00	0.89	6.86	9,378.63	-17.69	-21.50	27.55	0.26	
9,645.00 0.23 234.70 9,640.59 -13.84 -23.38 27.17 1.65 9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,477.00	1.20	333.08	9,472.62	-16.09	-21.85	27.03	0.72	
9,744.00 1.22 163.70 9,739.58 -14.97 -23.25 27.64 1.18 9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,571.00	1.19	326.58	9,566.59	-14.40	-22.84	26.99	0.14	
9,838.00 0.59 84.33 9,833.57 -15.88 -22.49 27.46 1.33 9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,645.00	0.23	234.70	9,640.59	-13.84	-23.38	27.17	1.65	
9,932.00 1.12 76.81 9,927.56 -15.63 -21.11 26.15 0.58 10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,744.00	1.22	163.70	9,739.58	-14.97	-23.25	27.64	1.18	
10,027.00 0.98 87.28 10,022.55 -15.38 -19.39 24.55 0.25 10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,838.00	0.59	84.33	9,833.57	-15.88	-22.49	27.46	1.33	
10,122.00 0.83 94.96 10,117.53 -15.40 -17.90 23.28 0.20	9,932.00	1.12	76.81	9,927.56	-15.63	-21.11	26.15	0.58	
·	10,027.00	0.98	87.28	10,022.55	-15.38	-19.39	24.55	0.25	
10,216.00 0.79 63.86 10,211.52 -15.17 -16.64 22.09 0.46	10,122.00	0.83	94.96	10,117.53	-15.40	-17.90	23.28	0.20	
	10,216.00	0.79	63.86	10,211.52	-15.17	-16.64	22.09	0.46	
10,311.00 0.50 79.58 10,306.52 -14.81 -15.64 21.05 0.35	10,311.00	0.50	79.58	10,306.52	-14.81	-15.64	21.05	0.35	

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
10,405.00	0.60	120.15	10,400.51	-14.98	-14.81	20.43	0.42
10,500.00	0.36	62.39	10,495.51	-15.09	-14.12	19.89	0.54
10,594.00	0.45	111.47	10,589.51	-15.09	-13.51	19.37	
10,689.00	0.61	115.92	10,684.51	-15.45	-12.71	18.87	0.37
10,783.00	0.28	358.52	10,778.50	-15.44	-12.27	18.49	0.17
10,878.00	0.11	353.42	10,873.50	-15.11	-12.28	18.33	0.83
10,972.00	0.76	16.91	10,967.50	-14.43	-12.11	17.83	0.18 0.70
11,067.00	0.45	0.66	11,062.49	40.45			
11,162.00	0.36	44.66	11,157.49	-13.45	-11.92	17.17	0.37
11,256.00	0.35	359.85	11,157.49	-12.87	-11.71	16.68	0.33
11,351.00	0.13	358.85		-12.53	-11.50	16.33	0.29
11,445.00	0.16		11,346.49	-12.26	-11.51	16.19	0.03
11,445.00	0.15	266.55	11,440.49	-12.12	-11.63	16.23	0.25
11,540.00	0.72	9.20	11,535.49	-11.54	-11.66	15.95	0.81
11,635.00	0.54	6.29	11,630.48	-10.50	-11.52	15.29	0.19
11,729.00	0.35	348.68	11,724.48	-9.78	-11.52	14.92	0.25
11,824.00	0.45	344.64	11,819.48	-9.14	-11.68	14.72	0.11
11,918.00	0.15	16.50	11,913.48	-8.66	-11.74	14.53	0.35
12,013.00	0.24	82.94	12,008.48	-8.52	-11.51	14.26	0.24
12,108.00	0.08	55.62	12,103.48	-8.46	-11.26	14.01	0.18
12,201.00	0.23	183.95	12,196.47	-8.61	-11.22	14.05	0.31
12,295.00	0.52	349.95	12,290.47	-8.38	-11.30	14.01	0.79
12,389.00	0.39	313.01	12,384.47	-7.74	-11.61	13.94	0.33
12,484.00	0.46	317.30	12,479.47	-7.24	-12.11	14.11	0.08
12,578.00	0.26	266.41	12,573.47	-6.97	-12.58	14.37	0.38
12,673.00	0.35	239.93	12,668.47	-7.13	-13.04	14.85	0.17
12,768.00	0.45	218.68	12,763.46	-7.57	-13.53	15.49	0.17
12,855.00	0.62	213.37	12,850.46	-8.23	-14.00	16.24	0.19
Final Sperry	MWD Survey		,	2.23	7-1.00	10.24	0.20
12,900.00	0.62	213.37	12,895.46	-8.63	-14.27	16.68	0.00
Survey Proje	ction to TD					10.00	0.00

Design Annotations

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
200.00	200.00	0.12	-0.04	Surveys from 200.00ft to 2249.00ft are Gyrodata Gyro Surveys
2,249.00	2,247.23	-36.43	-42.83	Tie-On to Gyrodata Gyro Survey
2,406.00	2,403.53	-45.29	-54.76	First Sperry MWD Survey
12,855.00	12,850.46	-8.23	-14.00	Final Sperry MWD Survey
12,900.00	12,895.46	-8.63	-14.27	Survey Projection to TD

Vertical Section Information

Ang			Origin	Orig	jin	Start
Тур	Target	Azimuth (°)	Туре	+N/_S (ft)	+E/-W (ft)	TVD (ft)
TD	No Target (Freehand)	238.82	Slot	0.00	0.00	0.00

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

Survey tool program

From (ft)	To (ft)		Survey/Plan	Survey Tool
200.00	2,249.00	Gyrodata Gyro Surveys		NS-GYRO-MS
2,406.00	12,900.00	Sperry MWD Surveys		MWD

Targets

Target Name - hit/miss	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
target - Shane	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude	Longitude
South Altamont	0.00	0.00	12,900.00	0.00	0.00	716,799,66	2.392.514.48	40° 17' 34 199 N	110° 5' 34 192 W

⁻ actual wellpath misses target center by 17.29ft at 12900.00ft MD (12895.46 TVD, -8.63 N, -14.27 E) - Rectangle (sides W200.00 H200.00 D0.00)

North Reference Sheet for Sec. 22-T2S-R2W - South Altamont 10-22-22 - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB @ 5474.00ft (H&P 319). Northing and Easting are relative to South Altamont 10-22-22

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866 Projection method is Lambert Conformal Conic (2 parallel)

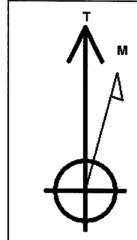
Central Meridian is 111° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99993070

Grid Coordinates of Well: 716,799.66 ft N, 2,392,514.48 ft E Geographical Coordinates of Well: 40° 17' 34.20" N, 110° 05' 34.19" W Grid Convergence at Surface is: 0.90°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,900.00ft the Bottom Hole Displacement is 16.68ft in the Direction of 238.82° (True).

Magnetic Convergence at surface is: -10.36° (24 July 2012, , BGGM2011)



Magnetic Model: BGGM2011 Date: 24-Jul-12 Declination: 11.26* Inclination/Dip: 65.94°

Field Strength: 52230

Grid North is 0.90° East of True North (Grid Convergence) Magnetic North is 11.26° East of True North (Magnetic Declination) lagnetic North is 10.36° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.90° o convert a Magnetic Direction to a True Direction, Add 11.26° East To convert a Magnetic Direction to a Grid Direction, Add 10.36°

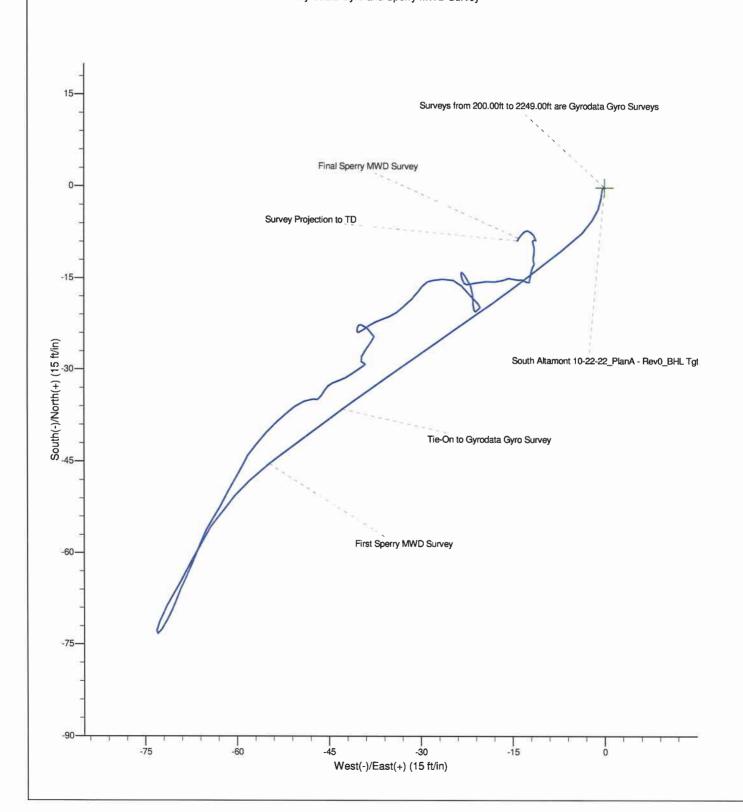
Project: Duchesne County, UT (NAD 1927) Site: Sec. 22-T2S-R2W Well: South Altamont 10-22-22

Bill Barrett Corp





South Altamont 10-22-22, Plan A, Plan A - Rev 0 Proposal V0 - Gyrodata Gyro and Sperry MWD Survey



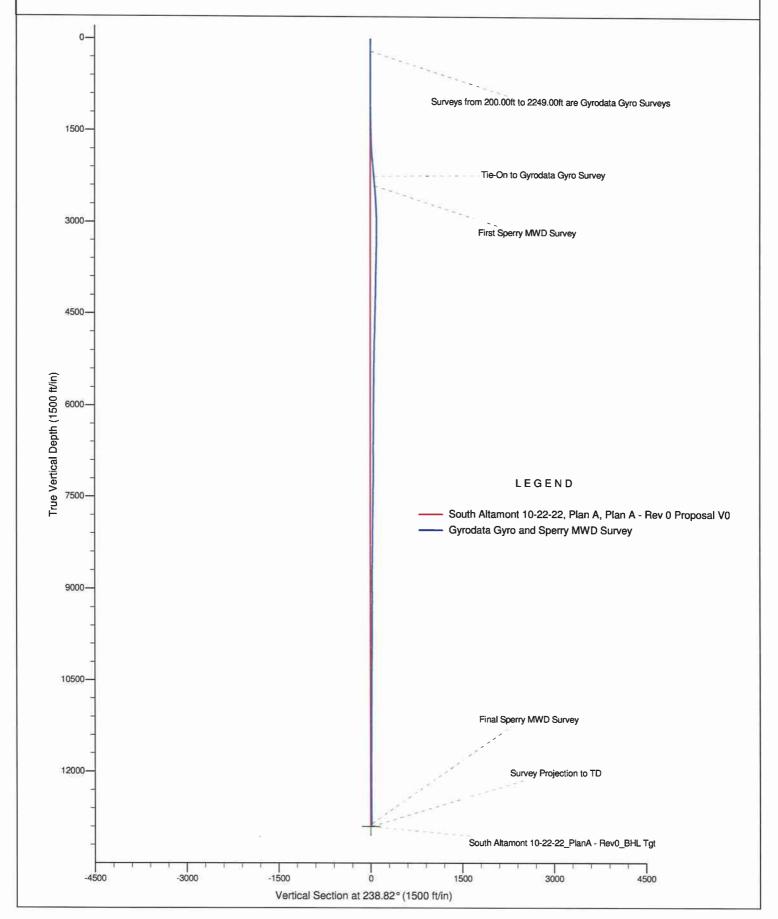
Project: Duchesne County, UT (NAD 1927) Site: Sec. 22-T2S-R2W

Well: South Altamont 10-22-22

Bill Barrett Corp



Sperry Drilling



Sundry Number: 34603 API Well Number: 43013510530000

	STATE OF UTAH			FORM 9
ι	DEPARTMENT OF NATURAL RESON DIVISION OF OIL, GAS, AND I			5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	Y NOTICES AND REPORT	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significar reenter plugged wells, or to drill ho n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: 2	HP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W N	Meridian:	U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDI	CATE NA	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
7	ACIDIZE		LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: 2/7/2013	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	☐ F	RACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	□ P	LUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	□ R	ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	□s	IDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	□ v	ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	□ s	I TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	✓ 0	THER	OTHER: confidential status
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly sh	ow all ner	tinent details including dates d	·
	equests this well be held i			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 11, 2013
NAME (PLEASE PRINT) Brady Riley	PHONE NU 303 312-8115	JMBER	TITLE Permit Analyst	
SIGNATURE N/A			DATE 2/7/2013	

RECEIVED: Feb. 07, 2013

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORTS ON	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly decreenter plugged wells, or to drill horizontan for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		HONE NUMBER: 3 312-8134 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2120 FSL 2000 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Meridia	n: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
ATTACHED PLEASE THIS WELL IN THE LO	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all particularly sh	URES TO COMPLETE DN. PLEASE CONTACT	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK ✓ RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining May 15, 2014 Date: By:
NAME (PLEASE PRINT)	PHONE NUMBER		
SIGNATURE	303 312-8115	Permit Analyst DATE	
N/A		5/13/2014	



10-22-22 SA RECOMPLETE PROCEDURES

Section 22–T2S–R2W API # 43-013-51053

May 13th, 2014

AFE #17547R

OBJECTIVE

Pull existing rods and tubing, set 5" CBP above existing perforations, and prepare wellbore for a Lower Green River recomplete. Perforate and frac Lower Green River per the procedure below. Drill out CBP's run tubing and return well to production.

MATERIAL NEEDS:

Fresh Water: 18,000 BBL's

Sand: 590,000 pounds 20/40 White, 310,000 pounds 20/40 SLC and 100,000

pounds 100 Mesh, to be supplied by Service Company

CURRENT WELL STATUS

Currently the well is producing 63 BOPD, 112 BWPD, and 75 MCFPD.

COMPLETION PROCEDURE

- 1. **Safety is the highest priority**. Hold wellsite safety meetings each morning and prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
- 2. Hold and document pre-activity meeting, determine location of necessary equipment and rig up of same, be sure all necessary contractors are present and agree as to the layout of location.
- 3. Spot necessary tanks and flowback equipment to perform the work outlined below and accommodate the materials listed above.
- 4. Pressure test flowback iron.
- 5. MIRU workover rig to pull and lay down rods and tubing.
- 6. Flush well with 2 % KCL 400 BBL's heated fresh water using workover rig pump.

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- 7. RDMO workover rig and associated equipment.
- 8. MIRU WL unit and lubricator.
- 9. RIH with gage ring to 10,550'.
- 10. RIH with 5" CBP set at 10,533' MD.
- 11. ND production tree and NU frac tree.
- 12. Pressure test casing and CBP to 4,500 psi, hold for 15 minutes, monitor and record bleed off
- 13. Perforate Stage 9 of Lower Green River/Wasatch as follows:

STAGE 9					5" CBP	10,533
GUN SYSTEM	3 1/8					
CHARGE	RDX DP					
	10171	10172	3	120		
	10183	10184	3	120		
	10197	10198	3	120		
	10222	10223	3	120		
	10270	10271	3	120		
	10314	10315	3	120		
	10324	10325	3	120		
	10371	10372	3	120		
	10383	10384	3	120		
	10420	10421	3	120		
	10441	10442	3	120		
	10459	10460	3	120		
	10476	10477	3	120		
	10494	10495	3	120		
	10502	10503	3	120		
Total			45			

- 14. MIRU & spot Frac equipment.
- 15. Pressures test all lines to 10,000 psi.
- 16. Fracture stimulate interval #9 per designs.
- 17. PU & RIH with 5" CFP and perforating guns.
- 18. Set CFP @ 10,170'.
- 19. Perforate Stage 10 of Lower Green River as follows:

STAGE 10					#1 10 K <mark>5"</mark>	10,170
GUN SYSTEM	3 1/8					
CHARGE	RDX DP					
	9794	9795	3	120		
	9808	9809	3	120		
	9855	9856	3	120		
	9880	9881	3	120		
	9916	9917	3	120		
	9955	9956	3	120		
	9980	9981	3	120		
	10000	10001	3	120		
	10016	10017	3	120		
	10029	10030	3	120		
	10058	10059	3	120		
	10071	10072	3	120		
	10085	10086	3	120		
	10113	10114	3	120		
	10149	10150	3	120		
Total			45			

- 20. Fracture stimulate interval #10 per design.
- 21. PU & RIH with 5" CFP and perforating guns.
- 22. Set CFP @ 9,752'.
- 23. Perforate Stage 11 of Lower Green River as follows:

STAGE 11					#2 10 K 5"	9,752
GUN SYSTEM	3 1/8					,
CHARGE	RDX DP					
	9497	9498	3	120		
	9509	9510	3	120		
	9542	9543	3	120		
	9567	9568	3	120		
	9597	9598	3	120		
	9615	9616	3	120		
	9624	9625	3	120		
	9642	9643	3	120		
	9666	9667	3	120		
	9678	9679	3	120		
	9686	9687	3	120		
	9706	9707	3	120		
	9720	9721	3	120		
	9731	9732	3	120		
Total		·	42			

- 24. Fracture stimulate Lower Green River interval #11 per design.
- 25. PU & RIH with 7" CFP and perforating guns.
- 26. Set 7" CFP @ 9,447'.
- 27. Perforate Stage 12 of Lower Green River as follows:

STAGE 12					#3 10 K 7 "	9,447
GUN SYSTEM	3 1/8					
CHARGE	RDX DP					
	9102	9103	3	120		
	9144	9145	3	120		
	9167	9168	3	120		
	9189	9190	3	120		
	9214	9215	3	120		
	9232	9233	3	120		
	9248	9249	3	120		
	9256	9257	3	120		
	9274	9275	3	120		
	9281	9282	3	120		
	9310	9311	3	120		
	9330	9331	3	120		
	9353	9354	3	120		
	9371	9372	3	120		
	9426	9427	3	120		
Total			45			

- 28. Fracture stimulate Lower Green River interval #12 per design.
- 29. PU & RIH with 7" CFP and perforating guns.
- 30. Set CFP @ 9,066'.
- 31. Perforate Stage 13 of Lower Green River as follows:

STAGE 13					#4 10 K 7 "	9,066
GUN SYSTEM	3 1/8					
CHARGE	RDX DP					
	8778	8779	3	120		
	8789	8790	3	120		
	8811	8812	3	120		
	8824	8825	3	120		
	8859	8860	3	120		
	8878	8879	3	120		
	8910	8911	3	120		
	8927	8928	3	120		
	8943	8944	3	120		
	8964	8965	3	120		
	8983	8984	3	120		
	8991	8992	3	120		
	9004	9005	3	120		
	9030	9031	3	120		
	9045	9046	3	120		
			45			
Total			45			

- 32. Fracture stimulate Lower Green River interval #13 per design.
- 33. PU & RIH with 7" CFP and perforating guns.
- 34. Set 7" CFP @ 8,720'.
- 35. Perforate Stage 14 of Lower Green River as follows:

STAGE 14					#5 10 K 7 "	8,720
GUN SYSTEM	3 1/8					
CHARGE	RDX DP					
	8470	8471	3	120		
	8478	8479	3	120		
	8487	8488	3	120		
	8495	8496	3	120		
	8511	8512	3	120		
	8536	8537	3	120		
	8570	8571	3	120		
	8587	8588	3	120		
	8611	8612	3	120		
	8638	8639	3	120		
	8649	8650	3	120		
	8662	8663	3	120		
	8683	8684	3	120		
	8693	8694	3	120		
	8699	8700	3	120		
Total			45			



- 36. Fracture stimulate Lower Green River interval #14 per design.
- 37. RD Halliburton frac equipment, clear location of all unnecessary personnel and equipment.
- 38. Set 7" Kill Plug 50' above top-most perf
- 39. RD WL unit and lubricator
- 40. MIRU workover rig to drill out all plugs.
- 41. Put well back on production.

CASING DATA

STRING	SIZE	WEIGHT	GRADE	DEPTH
Surface	9-5/8"	36#	J-55	2,317'
Intermediate	7"	26#	P-110	9,695'
Production	5"	18#	P-110	9,467-12,893'

PRESSURE AND DIMENSIONAL DATA

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	DRIFT
7"	26#	P-110	12,080 psi	9,950 psi	6.151"
5"	18#	P-110	13,940 psi	13,450 psi	4.151"

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SHINDS	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly de	_	
	reenter plugged wells, or to drill horizont		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 10-22-22 SOUTH ALTAMONT
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013510530000
3. ADDRESS OF OPERATOR:		PHONE NUMBER:	9. FIELD and POOL or WILDCAT:
1099 18th Street Ste 2300 4. LOCATION OF WELL	, Denver, CO, 80202 30	03 312-8134 Ext	BLUEBELL COUNTY:
FOOTAGES AT SURFACE: 2120 FSL 2000 FEL			DUCHESNE
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 22 Township: 02.0S Range: 02.0W Meridi	an: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7,55.00	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
7/2/2014	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
ATTACHED PLEASE WHICH TOOK PLAC WILL FOLLOW. PLE	COMPLETED OPERATIONS. Clearly show all FIND THE GREEN RIVER RECO CE 6/17-7/2/2014. A REVISED O ASE CONTACT BRADY RILEY QUESTIONS	pertinent details including dates, of MPLETE PROCEDURES COMPLETION REPORT AT 303-312-8115 WITH	Accepted by the Utah Division of Oil, Gas and Mining FORIRECORD ONLY
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBE 303 312-8115	R TITLE Permit Analyst	
SIGNATURE N/A		DATE 7/3/2014	

B	Bill	Barrett	Corporation
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Interest December	기	252		State/Provinc	е	County	Field Name		Well Status	Total Depth (ftKB) Primary Job Type	
Internation Design Desig		053	l	Jtah		Duchesne	South A	ltamont	PRODUCING	12,907.0 Recompletion	
1.00 07.00 1.00 03.00 MOV. Ng Malve ROAD RIG FROM 4:90.45 TO LOCATION	Start Time	Dur (hr)	End Time	Code		Category				Com	
1.50 10.00 SRIG Rig UpDown SILDE ROTO OUT, RUSL HEAT CSG W/RD BELS HOT WTR.	06:00				Crew T	<u> </u>		CREW T	RAVEL. HSM.		
1000 1100 1100 1101	07:00	1.50	08:30	RMOV	Rig Mo	ve		ROAD R	IG FROM 4-9D-45 TO	LOCATION.	
11:00	08:30	1.50	10:00	SRIG	Rig Up/	Down		SLIDE R	OTO OUT. RUSU. HEA	AT CSG W/ 80 BBLS HOT WTR.	
1.50 17.30 BOPI Install BOP's X.O. FOR TBG. ND WIL RELEASE 7*8 RD TAC. NJ BOP. RU FLOOR.	10:00	1.00	11:00	HOIL	Hot Oil	Well		UNSEAT	PUMP. FLUSH RODS	S W/ 70 BBLS HOT WTR.	
17.30	11:00	5.00	16:00	PURP	Pull Ro	d Pump		РООН А	S LD RODS AND PUM	IP. (3-3/4" SLK WORN RODS)	
SA 10-22-22 6/18/2014 06:00 - 6/19/2014	16:00	1.50	17:30	ВОРІ	Install BOP's			X-O FOF	R TBG. ND WH. RELEA	ASE 7" 8RD TAC. NU BOP. RU FLOOR.	
SA 10-22-22 6/18/2014 06:00 - 6/19/2014 06:00	17:30	0.50	18:00	PULT	* * * * * * * * * * * * * * * * * * * *			POOH W	// 60-JTS TBG AS STE) IN DERRICK.	
Substrict County	18:00	12.00	06:00	LOCL	Lock W	ellhead & Secure	;	CREW T	RAVEL. WELL SECUP	RE FOR NIGHT.	
State Province South Attained Province Pro	SA 10-	22-22	6/18/	2014 (6.00	- 6/19/201	4 06:00	l			
								9			
		053	l	Jtah		Duchesne	South A	Itamont	PRODUCING	12,907.0 Recompletion	
15:00	<u> </u>		1	1							
10:30					Crow T			CDEW/ T	DAVEL HSM	Com	
20 FILL IN TAIL PIPE.								_		TEV DOOD AS LO 97 ITS TRO AND DROD BUA C	
RUN DOWN TO 10,509 POOP. RIP W. 5" CIBP. CORRELATE TO LT. SET CIBP A 10,540* (RI W) DUMP BAILE R DUMP BAILE X X CMT (TOC EST 10,520). POOH RDM 0 PERFORATORS RIP W 200 BBILS DOWN TBG TO FILL CSG (FL AT 5750*). CIRC OUT OIL AND GAS TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN RIP W 200 BBLS DOWN TBG TO FILL CSG (FL AT 5750*). CIRC OUT OIL AND GAS TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN RIP W 200 BBLS DOWN TBG TO FILL CSG (FL AT 5750*). CIRC OUT OIL AND GAS TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN RIP W 200 BBLS DOWN TBG TO FILL CSG (FL AT 5750*). CIRC OUT OIL AND GAS TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN RIP W 200 BBLS DOWN TBG TO FILL CSG (FL AT 5750*). CIRC OUT OIL AND GAS TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN RIP W 200 BBLS DOWN TBG TO FILL CSG (FL AT 5750*). CIRC OUT OIL AND GAS TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO 3000 PSI FOR 5 MINS, HELD. RIP W 200 BBLS TEST CSG TO	37.00	3.50	10.30	PULI	Pull Tu	bing				115). POOR AS LD 87-315 1BG AND PROD BRA. C.	
10,540', RIH W/ DUMP BAILER, DUMP BAILE SX CMT (TOC EST 10,520'), POOH RDM PERFORATORS 15:00	10:30	4.50	15:00	WLWK	Wirelin	е					
15:00							10,540'. RIH W/ DUMP BAILER. DUMP BAIL 2 SX CMT (TOC EST 10,520'). POOH				
1.50	15.00	1.50	16.20	DUTD	Dun Tu	hina				OT AT 62401	
TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN TO PROD TANKS, PMP 75 BBLS TO CLEAN UP. SDFN						<u> </u>					
SA 10-22-22 6/19/2014 06:00 - 6/20/2014 06:00 Field Name Well Status PRODUCING Total Depth (RKB) Primary Job Type 12,907.0 Recompletion Primary Job Type 12,907.0 Recompletion Primary Job Type 12,907.0 Recompletion Roll Depth (RKB) Primary Job Type Roll Depth (RK	16:30	1.50	18:00	GOP	Genera	Operations					
State Private State Private County Duchesne South Altamont PRODUCING Total Depth (ffKB) Primary Job Type Recompletion	18:00	12.00	06:00	LOCL	Lock W	ellhead & Secure	;	CREW T	RAVEL. WELL SECUP	RE FOR NIGHT.	
A3-013-51053	SA 10-	22-22	6/19/	2014 0	6:00	- 6/20/2014	4 06:00				
Start Time		250			е	1 '					
Start Time		J33		Jian		Duchesne	South A	itamont	PRODUCING	12,907.0 Recompletion	
		Dur (hr)	End Time	Code		Category				Com	
HELD. HELD. HELD. HELD. HELD. HELD. HELD. PUIL Tubing POOH L/D 2-7/8 TBG, 200 JTS TOTAL. HELD. HELD. POOH L/D 2-7/8 TBG, 200 JTS TOTAL. HELD.	06:00				Crew T			CREW T	RAVEL. HOLD SAFET	Y MEETING.	
11:30	07:00	2.00	09:00	GOP	Genera	l Operations			AS & OIL OFF WELL V	W/ 200 BBLS. TEST CSG TO 3000 PSI FOR 5 MINS,	
11:30 2.00 13:30 IWHD Install Wellhead FILL HOLE. N/D BOP. N/U 10K 7" FRAC TREE. 13:30 1.00 14:30 SRIG Rig Up/Down R/D RIG & EQUIPMENT. ROAD RIG TO 7-20 RU. 15:30 1.00 16:30 SRIG Rig Up/Down ROAD RIG TO 7-20 RU. SLIDE BACK UNIT. R/U RIG & EQUIPMENT. P/U ON RODS, WEIGHING 12K. SDFN Install Wellhead & Secure WELL SECURE. CREW TRAVEL. SA 10-22-22 6/20/2014 06:00 - 6/21/2014 06:00 Well Status Total Depth (ftKB) Primary Job Type Total Depth (ftKB) Primary Job Type State Time Dur (hr) End Time Code Category CAMERON CHANGED 10K CSG VALVES. PRES TEST CSG AND VALVES TO 4501 PSI. GOOD. SHUT IN AND SECURE WELL.	09:00	2 50	11:30	PULT	Pull Tu	bina		POOH L	/D 2-7/8 TBG 200 JTS	TOTAL	
13:30						•			,		
15:30										T TIME INCL.	
15:30											
16:30								_		FOLUDATAT DALON DODE WEIGHING 19K CDE	
SA 10-22-22 6/20/2014 06:00 - 6/21/2014 06:00 Field Name South Altamont PRODUCING Primary Job Type Primary Job Type Start Time Dur (hr) End Time Code Category CAMERON CHANGED 10K CSG VALVES. PRES TEST CSG AND VALVES TO 4501 PSI. GOOD. SHUT IN AND SECURE WELL.	15:30	1.00	16:30	SRIG	Rig Up/	Down		SLIDE B	ACK UNIT. R/U RIG &	EQUIPMENT. P/U ON RODS, WEIGHING 12K. SDF	
State/Province	16:30	13.50	06:00	LOCL	Lock W	ellhead & Secure	;	WELL S	ECURE. CREW TRAVI	EL.	
Time Log Start Time Dur (hr) End Time Code Category CAMERON CHANGED 10K CSG VALVES. PRES TEST CSG AND VALVES TO 4500 PSA 10-22-22 6/29/2014 06:00 Of:00	SA 10-	22-22	6/20/	2014 0	6:00	- 6/21/201	4 06:00				
Start Time Dur (hr) End Time Code Category CAMERON CHANGED 10K CSG VALVES. PRES TEST CSG AND VALVES TO 4500		.=.			е		I				
Start Time Dur (hr) End Time Code Category CAMERON CHANGED 10K CSG VALVES. PRES TEST CSG AND VALVES TO 4500		J53	l	utan		Duchesne	South A	ıtamont	PRODUCING	12,907.0 Recompletion	
CAMERON CHANGED 10K CSG VALVES. PRES TEST CSG AND VALVES TO 4500		Dur (hr)	End Time	Code		Category				Com	
SA 10-22-22 6/29/2014 06:00 - 6/30/2014 06:00 API 43-013-51053 State/Province Utah County Duchesne Field Name South Altamont Well Status PRODUCING Total Depth (ftKB) 12,907.0 Primary Job Type Recompletion Time Log Start Time Dur (hr) 07:00 CTRL Crew Travel Crew Travel ARRIVE ON LOCATION 7AM 07:00 0.10 07:06 SMTG Safety Meeting DISCUSS OVER HEAD LOADS WHILE RIGGING UP. 07:06 2.00 09:06 SRIG Rig Up/Down MIRU CASED HOLE O9:06 2.00 11:06 WLWK Wireline PERF STG 9 PERF CR1, WASATCH, AND CR2, FORM 10171'-10503' WITH 45					Pressu			_		G VALVES. PRES TEST CSG AND VALVES TO 450	
Vision Duchesne South Altamont PRODUCING 12,907.0 Recompletion	SA 10-	22-22	6/29/	2014 0	6:00	- 6/30/201	4 06:00				
Time Log Start Time Dur (hr) End Time Code Category ARRIVE ON LOCATION 7AM 06:00 1.00 07:00 CTRL Crew Travel ARRIVE ON LOCATION 7AM 07:00 0.10 07:06 SMTG Safety Meeting DISCUSS OVER HEAD LOADS WHILE RIGGING UP. 07:06 2.00 09:06 SRIG Rig Up/Down MIRU CASED HOLE 09:06 2.00 11:06 WLWK Wireline PERF STG 9 PERF CR1, WASATCH, AND CR2, FORM 10171'-10503' WITH 45)53			е		I				
Start Time Dur (hr) End Time Code Category Com 06:00 1.00 07:00 CTRL Crew Travel ARRIVE ON LOCATION 7AM 07:00 0.10 07:06 SMTG Safety Meeting DISCUSS OVER HEAD LOADS WHILE RIGGING UP. 07:06 2.00 09:06 SRIG Rig Up/Down MIRU CASED HOLE 09:06 2.00 11:06 WLWK Wireline PERF STG 9 PERF CR1, WASATCH, AND CR2, FORM 10171'-10503' WITH 45		700		Juli		Ducheshe	Coduit	itamont	TRODUCINO	12,507.5 100011	
07:00 0.10 07:06 SMTG Safety Meeting DISCUSS OVER HEAD LOADS WHILE RIGGING UP. 07:06 2.00 09:06 SRIG Rig Up/Down MIRU CASED HOLE 09:06 2.00 11:06 WLWK Wireline PERF STG 9 PERF CR1, WASATCH, AND CR2, FORM 10171'-10503' WITH 45	43-013-510									Com	
07:06 2.00 09:06 SRIG Rig Up/Down MIRU CASED HOLE 09:06 2.00 11:06 WLWK Wireline PERF STG 9 PERF CR1, WASATCH, AND CR2, FORM 10171'-10503' WITH 45	43-013-510 Time Log Start Time		07:00	CTRL	Crew T	ravel		ARRIVE	ON LOCATION 7AM		
09:06 2.00 11:06 WLWK Wireline PERF STG 9 PERF CR1, WASATCH, AND CR2, FORM 10171'-10503' WITH 45	43-013-510 Time Log Start Time		107.00	01.1=0	Safety	Meeting		DISCUS	S OVER HEAD LOADS	WHILE RIGGING UP.	
	43-013-510 Time Log Start Time 06:00	1.00		SMIG							
THE THE PART OF TH	43-013-510 Time Log Start Time 06:00 07:00	1.00 0.10	07:06		,	Down		MIRU CA	ASED HOLE		

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Time Log Start Time Dur (hr) End Time Code Category Com Rig Up/Down 2.00 13:06 SRIG MIRU HES 11:06 LOCK AND SECURE WELL FOR NIGHT Lock Wellhead & Secure 13:06 16.90 06:00 LOCL

SA 10-22-22 6/30/2014 06:00 - 7/1/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51053	Utah	Duchesne	South Altamont	PRODUCING	12,907.0	Recompletion

API 43 013 F			State/Province Utah		County Field Name Duchesne South Altamo			Well Status PRODUCING	Tota	I Depth (ftKB)	Primary Job Type 7.0 Recompletion		
Time Lo			nan		Ducheshe	Journa	itamont	I KODOCING		12,907	7.0 Recompletion		
Start Time	Dur (hr)	End Time	Code		Category					Com			
06:00		06:30	SMTG	Safety I	Meeting					PUMPS. QC FLUIDS. PRESSURE TEST. HSM- GUNS, MUSTER AREA.			
06:30	1.34	07:50	FRAC	Frac. Jo	ob		OPEN W BREAK I PMP 390 5230 PSI FLUSH W SHUT DO STAGE F PERFS O ISIP 534' 100 MES 20/40 SL SLK WTF	RE TEST LINES TO ELL W/ 760 PSI AT DOWN 5431 PSI AT 0 GAL 15% HCL AC V/ 15739 GAL. 29.1 I DWN PMP. SURGE	10 6:27 10 BPM. CID W/ 90 BIC BPM AT 5690 3X. WAIT 5 N ATE OF 69.4 BPM, AR 68.8	D PSI. BALL OUT MIN FOR BALLS BPM AT 6087 PS BPM, MP 6148 4.0 ppg 336 BBL, BTR 28	TO FALL. SI. ISDP 5162. FG .94. PSI, AP 5765 PSI		
07:50	2.50	10:20	PFRT	Perfora	ting		AND EQU RUN DO CFP AT PEAK, BI PRESSU	JALIZE 4940 PSI. O WN LOGGED UP TH 10164' WITH 4800 P LACK SHALE FACIE	OPEN WELL A HROUGH CO PSI. PULL UP ES 9794'-101	AND RIH. CORRI LLARS AT 1008 AND PERF UTE 50' WITH 45 HOL	R STAGE 10 INTO LUBE ELATE TO LINER TOP. 3' & 10039' AND SET 5" ELAND BUTTE, CASTLE LES IN 15' NET. ENDING HOT. SHUT IN AND TURN		
10:20	1.42	11:45	FRAC	Frac. Jo	ob		OPEN W BREAK I PMP 340 4500 PSI FLUSH W SHUT DO STAGE F OPEN 35 ISIP , FO 100 MES 20/40 WH SLK WTF	RE TEST LINES TO ELL W/ 4550 PSI AT DOWN 5554 PSI AT 0 GAL 15% HCL AC W1 15457 GAL. 29.4 I DWN PMP. SURGE FR PAD. STABLE RA	T 10:28 9.8 BPM. CID W/ 90 BIC BPM AT 5000 3X. WAIT 5 N ATE OF 71 BI BPM, MP PSI, 0, 2.0-4.0 RAN /BOR G (18)	O PSI. BALL OUT MIN FOR BALLS PM AT 6012 PSI AP PSI MP, 4.0 ppg 1946 BBL, BTR 3	TO FALL. . ISDP 4755. FG .91. PERFS		
11:45	1.86	13:37	PFRT	Perfora	ting		AND EQU RUN DO MKR & B ENDING	JALIZE 4600 PSI. O WN AND SET 5" CF LACK SHALE FACIE	OPEN WELL A FP AT 9752' W ES FORM 949 PSI. POOH AN	AND RIH. CORRE VITH 4400 PSI. F 97'-9732' WITH 4	R STAGE 11 INTO LUBE ELATE TO LINER TOP. PULL UP AND PERF 3PT 42 HOLES IN 42' NET. GUNS SHOT. SHUT IN AND		

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Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
13:37	1.28	14:54	FRAC	Frac. Job	FRAC STG 11 PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 4300 PSI AT 13:45 BREAK DOWN 4805 PSI AT 9.7 BPM. PMP 3400 GAL 15% HCL ACID W/ 78 BIO BALLS FOR DIVERSION. 10.2 BPM AT 4400 PSI. FLUSH W/ 15236 GAL. 28.5 BPM AT 4775 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.8 BPM AT 6280 PSI. ISDP 4494. FG .94. PERFS OPEN 28/42 ISIP 4768, FG .93, MR 71.2 BPM, AR 70.9 BPM, MP 6299 PSI, AP 5301 PSI 100 MESH 16,100 lbs. 1 ppg 20/40 WHITE 150,000 lbs 2.0, 2.0-4.0 RAMP, 4.0 ppg SLK WTR 1133 BBL, 22# HYBOR G (18) 1838 BBL, BTR 3064 BBLS SHUT IN AND TURN OVER TO CASEDHOLE.
14:54	2.00	16:54	PFRT	Perforating	PERF STG #12- PU HES CFP 7" 10K CBP AND GUNS FOR STAGE 12 INTO LUBE AND EQUALIZE 4444 PSI. OPEN WELL AND RIH. CORRELATE TO COLLARS @ 7445,7489,7531,7575,7620 . RUN DOWN AND SET 7" CFP AT 9447' WITH PSI. PULL UP AND PERF DOUGLAS CREEK & 3PT MKR FORM 9102'-9427' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. ENDING PRESSURE AT 4150 PSI. SHUT IN LOCK AND SECURE WELL. SDFN
16:54	13.10	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT
SA 10	1_22_22	7/1/20	11/106	:·nn _ 7/2/2014 06·00	

SA 10-22-22 7/1/2014 06:00 - 7/2/2014 06:00

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API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51053	Utah	Duchesne	South Altamont	PRODUCING	12,907.0	Recompletion

43-013-5	1053	٦	nan	Duchesne	South Altamont PRODUCING 12,907.0 Recompletion
Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	SMTG	Safety Meeting	AOL 06:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.
07:00		08:30	FRAC	Frac. Job	FRAC STG 12 PRESSURE TEST LINES TO 9130 PSI. OPEN WELL W/ 4100 PSI AT 07:15 BREAK DOWN 5561 PSI AT 9.6 BPM. PMP 3900 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10 BPM AT 4130 PSI. FLUSH W/ 14941 GAL. 29.4 BPM AT 4520 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71 BPM AT 5520 PSI. ISDP 4328. FG .91. PERFS OPEN 35/42 LOST GEL DURING 1LB 100MESH STAGE CUT SAND FLUSHED WELLBORE. HES FOUND CLUMPS OF GEL IN MIXING BOWL CAUSING THE AUGERS TO BIND UP. REMOVED CLUMPS AND FIXED ISSUE. GOT GEL GOING AGAIN GOT CROSSLINK SAMPLES BACK WENT BACK TO SAND AND PUMPED ZONE TO DESIGNED SAND VOLUME. ISIP 4488 , FG .92, MR 71.2 BPM, AR 66.8 BPM, MP 5382 PSI, AP 4811 PSI 100 MESH 16,200 lbs. 1 ppg 20/40 WHITE 150,000 lbs 2.0, 2.0-4.0 RAMP, 4.0 ppg SLK WTR 1137 BBL, 20# HYBOR G (16) 2250 BBL, BTR 3479 BBLS SHUT IN AND TURN OVER TO CASEDHOLE.
08:30	2.00	10:30	PFRT	Perforating	PERF STG #13- PU HES CFP 7" 10K CFP AND GUNS FOR STAGE 13 INTO LUBE AND EQUALIZE 4200 PSI. OPEN WELL AND RIH. CORRELATE TO COLLARS @ 7445,7489,7531,7575,7620 AND SET 7" CFP AT 9066' WITH 4100 PSI. PULL UP AND PERF DOUGLAS CREEK 8778'-9046' WITH 45 HOLES IN 15' NET. ENDING PRESSURE 3800 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND TURN WELL OVER TO HES.
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Time Lo	ime Log								
Start Time	Dur (hr)	End Time	Code	Category	Com				
10:30	1.50	12:00	FRAC	Frac. Job	FRAC STG 13 PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 4025 PSI AT 10:35 BREAK DOWN 5010 PSI AT 9.4 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 4020 PSI. FLUSH W/ 14699 GAL. 29.4 BPM AT 4570 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71 BPM AT 5757 PSI. ISDP 3929 . FG .88. PERFS OPEN 27/45 ISIP 4315 , FG .92, MR 71.1 BPM, AR 71 BPM, MP 5980 PSI, AP 4982 PSI 100 MESH 16,200 lbs. 1 ppg 20/40 WHITE 150,200 lbs 2.0, 2.0-4.0 RAMP, 4.0 ppg SLK WTR 1121 BBL, 20# HYBOR G (16) 1839 BBL, BTR 3053 BBLS SHUT IN AND TURN OVER TO CASEDHOLE.				
12:00	1.86	13:51	PFRT	Perforating	PERF STG #14- PU HES CFP 7" 10K CFP AND GUNS FOR STAGE 14 INTO LUBE AND EQUALIZE 4000 PSI. OPEN WELL AND RIH CORRELATE TO COLLARS @ 7445,7489,7531,7575,7620. RUN DOWN AND SET 7" CFP AT 8588' WITH PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8470'-8700' WITH 45 HOLES IN 15' NET. ENDING PRESSURE 3740 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND TURN WELL OVER TO HES.				
13:51	1.00	14:51	FRAC	Frac. Job	FRAC STG 14 PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 3740 PSI AT 13:43 BREAK DOWN 4606 PSI AT 9.7 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 3705 PSI. FLUSH W/ 13611 GAL. 29.3 BPM AT 4850 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.5 BPM AT 4362 PSI. ISDP 3407 . FG .83. PERFS OPEN 40/45 ISIP 2955, FG .78, MR 71.4 BPM, AR 71 BPM, MP 5410 PSI, AP 4757 PSI 100 MESH 15,360 lbs. 1 ppg 20/40 WHITE 140,440 lbs 2.0, 2.0-4.0 RAMP, 4.0 ppg SLK WTR 1101 BBL, 20# HYBOR G (16) 1658 BBL, BTR 2840 BBLS				
14:51	15.14	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL. TURN WELL OVER TO FLOW BACK				

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Sundry Number: 53745 API Well Number: 43013510530000 STATE OF UTAH AMENDED REPORT ... FORM 8 DEPARTMENT OF NATURAL RESOURCES (highlight changes) DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1a. TYPE OF WELL: 7. UNIT or CA AGREEMENT NAME OIL VELL DRY OTHER b. TYPE OF WORK: 8. WELL NAME and NUMBER: DEEP-FN DIFF. RESVR NEW WELL RE-FNTRY Recomplete 10-22-22 South Altamont 2. NAME OF OPERATOR: 9. API NUMBER: **Bill Barrett Corporation** 4301351053 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT 1099 18th St. Ste 2300 CITY Denver STATE CO ZIP 80202 (303) 293-9100 Bluebell QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2120 FSL 2000 FEL NWSE 22 2S 2W U AT TOP PRODUCING INTERVAL REPORTED BELOW: 2113 FSL 2013 FEL 12. COUNTY 13. STATE AT TOTAL DEPTH: 2111 FSL 2014 FEL UTAH Duchesne 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): ABANDONED READY TO PRODUCE 🗸 6/9/2012 8/7/2012 7/2/2014 5452 GR 19. PLUG BACK T.D.: MD 12,802 18. TOTAL DEPTH: 21. DEPTH BRIDGE MD 12,907 20. IF MULTIPLE COMPLETIONS, HOW MANY? * PLUG SET: TVD 12.895 TVD 12,797 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) NO 🗸 WAS WELL CORED? YES (Submit analysis) NO 🗸 WAS DST RUN? YES (Submit report) DIRECTIONAL SURVEY? NO YES 🗸 (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER CEMENT TYPE & SLURRY HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) CEMENT TOP ** AMOUNT PULLED DEPTH NO. OF SACKS VOLUME (BBL) 26 Con 20 65# 0 0 0 12 1/4 9 5/8 J-55 36# 2,317 2,317 780 267 0 8 3/4 **HC**₽ 26# 0 9.705 9.695 G 725 266 3034 15000 6 1/8 18# 12,907 12,893 59 0 5 P11 € G 215 25. TUBING RECORD SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 10,503 2 7/8 26. PRODUCING INTERVALS 27. PERFORATION RECORD FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE NO. HOLES PERFORATION STATUS (A) Green River 8.470 10.503 8.470 10.503 .38 261 Open Squeezed (B) Open Squeezed (C) Open Squeezed (D) Open Squeezed 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL 8470-10503 Recomplete Green River

CORE ANALYSIS

(CONTINUED ON BACK)

OTHER:

(5/2000)

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

POW

53745 APT Well Number: 43013510530000 Sundry Number:

31. INITIAL PRO	DDUCTION			INT	ΓERVAL A (As sho	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE		TEST PRODUCTION RATES: →	-	GAS - MCF:	WATER – BBL:	PROD. METHOD:
7/2/2014		7/3/2014			24		372	437	911	Flowing
24/64	TBG. PRESS.	CSG. PRESS.	API GRAVITY 36.00	BTU – GAS 2	GAS/OIL RATIO 1,174	24 HR PRODUCTION RATES: →	OIL – BBL: 372	GAS – MCF: 437	WATER – BBL: 911	INTERVAL STATUS
				INT	ΓERVAL B (As sho	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE	HOURS TESTED:		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N OIL – BBL:	GAS - MCF:	WATER – BBL:	INTERVAL STATUS
	•	•		INT	TERVAL C (As sho	wn in item #26)	•	•	•	•
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTE	HOURS TESTED:		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS
				INT	ΓERVAL D (As sho	wn in item #26)			<u>.</u>	•
DATE FIRST PRODUCED: TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER – BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS
32. DISPOSITIO	ON OF GAS (Sold	, Used for Fuel, V	ented, Etc.)	•	•		I		'	
33. SUMMARY	OF POROUS ZOI	NES (Include Aqu	ifers):			;	34. FORMATION	(Log) MARKERS:		
			ereof: Cored intervalut-in pressures and		m tests, including de	epth interval				
Formation	on		ottom (MD)	Descrip	otions, Contents, etc	: .		Name		Top (Measured Depth)
							Green Rive Mahogany Tgr3 Marke Douglas Cr Black Shal Castle Pea Uteland Bu Wasatch TD	er reek e ık		5,194 6,946 8,268 8,469 9,588 9,788 10,107 10,334 12,907

35. ADDITIONAL REMARKS (Include plugging procedure)

Conductor was cemented with grout. Treatment data is attached. First oil was on 7/5/2014, first gas 7/3/2014.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.									
NAME (PLEASE PRINT) Christina Hirtler	TITLE	Permit Analyst							
SIGNATURE	DATE	7/23/2014							

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

Utah Division of Oil, Gas and Mining Send to:

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Aug. 04, 2014

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

^{**} ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

10-22-22 SA Report Continued*

	44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)											
	AMOUNT AND TYPE OF MATERIAL											
Stage	Stage bbls Slurry lbs Common White 100 lbs 20/40 Premium White gal 15% HCI Acid											
Suge	<u> </u>	Mesh Sand		ZW 1070 1101 110W								
9	2878	16200	150,000	4400								
10	3183	17000	160200	3900								
11	3064	16100	150000	3900								
12	3479	16200	150000	3900								
13	3054	16200	150200	3900								
14	2840	15360	140440	3400								

^{*}Depth intervals for frac information same as perforation record intervals.

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.07	340.33	200.00	0.12	-0.04	-0.02	0.03
Surveys fr	om 200.00ft to 22	249.00ft are Gv	rodata Gvro Su	rvevs			
400.00	0.07	228.78	400.00	0.15	-0.17	0.07	0.06
600.00	0.25	203.25	600.00	-0.33	-0.44	0.55	0.09
800.00		177.82	799.99	-1.64	-0.58	1.34	0.16
1,000.00		209.81	999.99	-3.49	-1.08	2.73	0.16
1,200.00		207.32	1,199.97	-5.28	-2.06	4.49	0.04
1,400.00		224.23	1,399.96	-7.36	-3.69	6.97	0.24
1,600.00		232.24	1,599.91	-10.26	-7.05	11.34	0.31
1,800.00	3.03	231.67	1,799.74	-15.22	-13.36	19.31	0.73
2,000.00	4.93	235.35	1,999.25	-23.38	-24.58	33.13	0.96
2,200.00		233.63	2,198.45	-33.73	-39.07	50.89	0.20
2,249.00		235.00	2,247.23	-36.43	-42.83	55.50	0.57
	Gyrodata Gyro Sı		,				
2,406.00		231.72	2,403.53	-45.29	-54.76	70.30	0.24
	ry MWD Survey		_, . 30.00	.5.25	5 5	. 5.55	÷ •
2,500.00		220.71	2,497.21	-50.55	-60.38	77.83	1.62
2,594.00	3.84	214.20	2,590.99	-55.70	-64.34	83.88	0.55
2,688.00	3.19	202.79	2,684.81	-60.71	-67.13	88.86	1.01
2,782.00	2.80	213.45	2,778.68	-65.04	-69.40	93.05	0.72
2,876.00	2.25	205.22	2,872.59	-68.62	-71.46	96.66	0.70
2,971.00		206.28	2,967.55	-71.21	-72.69	99.06	1.10
3,065.00	0.76	183.09	3,061.53	-72.72	-73.17	100.25	0.63
3,159.00		63.57	3,155.53	-73.24	-72.99	100.36	1.00
3,253.00		35.40	3,249.53	-72.59	-72.39	99.52	0.61
3,348.00		28.48	3,344.51	-71.04	-71.46	97.91	0.61
3,442.00		23.73	3,438.49	-69.36	-70.62	96.32	0.51
3,536.00	1.15	20.20	3,532.47	-67.79	-69.99	94.98	0.26
3,631.00	1.18	23.45	3,627.45	-66.00	-69.27	93.43	0.08
3,725.00	1.47	24.34	3,721.43	-64.01	-68.39	91.65	0.31
3,820.00	1.41	24.15	3,816.40	-61.84	-67.41	89.69	0.06
3,914.00	1.26	21.83	3,910.37	-59.82	-66.55	87.91	0.17
4,008.00	1.17	21.20	4,004.35	-57.97	-65.82	86.32	0.10
4,103.00	1.05	25.64	4,099.33	-56.28	-65.09	84.83	0.16
4,197.00		33.96	4,193.31	-54.47	-64.02	82.97	0.54
4,291.00		26.71	4,287.28	-52.27	-62.74	80.74	0.22
4,386.00		26.99	4,382.24	-49.93	-61.56	78.52	0.02
4,480.00) 1.51	32.88	4,476.21	-47.74	-60.30	76.31	0.18
4,574.00	1.30	24.15	4,570.18	-45.73	-59.19	74.32	0.32
4,668.00	1.12	33.33	4,664.16	-43.99	-58.25	72.61	0.28
4,762.00	1.61	40.19	4,758.13	-42.21	-56.89	70.53	0.55
4,857.00		39.66	4,853.09	-40.19	-55.20	68.03	0.04
4,951.00	1.50	50.17	4,947.06	-38.40	-53.43	65.59	0.31
5,045.00		47.98	5,041.03	-36.98	-51.78	63.45	0.38
5,139.00		52.93	5,135.02	-35.96	-50.57	61.88	0.40
5,234.00		65.84	5,230.00	-35.12	-49.04	60.14	0.64
5,328.00		107.50	5,323.99	-34.81	-47.60	58.74	1.06
5,423.00	0.41	68.79	5,418.99	-34.83	-46.84	58.10	0.37
5,517.00		28.52	5,512.98	-34.26	-46.28	57.33	0.43

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5,611.00	0.76	35.19	5,606.98	-33.30	-45.68	56.32	0.17
5,705.00	0.31	49.12	5,700.97	-32.62	-45.13	55.50	0.49
5,799.00	0.76	58.98	5,794.97	-32.14	-44.40	54.63	0.49
5,894.00	0.95	75.82	5,889.96	-31.62	-43.10	53.24	0.33
5,988.00	1.87	54.11	5,983.93	-30.53	-41.10	50.97	1.11
6,082.00	0.74	54.77	6,077.90	-29.28	-39.36	48.83	1.20
6,176.00	0.38	266.46	6,171.90	-28.95	-39.18	48.51	1.15
6,271.00	0.54	331.10	6,266.90	-28.58	-39.71	48.77	0.54
6,365.00	0.57	28.58	6,360.90	-27.78	-39.70	48.34	0.57
6,459.00	0.95	33.46	6,454.89	-26.72	-39.04	47.24	0.41
6,554.00	1.15	32.76	6,549.87	-25.26	-38.09	45.67	0.21
6,648.00	0.11	285.56	6,643.86	-24.44	-37.67	44.88	1.26
6,742.00	0.65	327.63	6,737.86	-23.97	-38.04	44.96	0.61
6,836.00	0.76	310.98	6,831.86	-23.11	-38.80	45.16	0.25
6,931.00	0.62	286.41	6,926.85	-22.55	-39.77	45.70	0.34
7,025.00	0.90	189.49	7,020.84	-23.13	-40.38	46.52	1.23
7,120.00	0.39	78.35	7,115.84	-23.80	-40.18	46.70	1.16
7,214.00	0.84	52.17	7,209.83	-23.32	-39.33	45.72	0.55
7,308.00	0.65	55.73	7,303.83	-22.59	-38.34	44.50	0.21
7,402.00	0.64	67.79	7,397.82	-22.10	-37.42	43.45	0.14
7,497.00	0.77	68.11	7,492.81	-21.66	-36.33	42.30	0.14
7,591.00	0.75	68.09	7,586.80	-21.19	-35.17	41.07	0.02
7,685.00	0.89	54.58	7,680.79	-20.54	-34.01	39.73	0.25
7,779.00	0.84	43.69	7,774.78	-19.62	-32.94	38.34	0.18
7,874.00	0.65	51.02	7,869.78	-18.78	-32.04	37.13	0.22
7,968.00	0.38	44.12	7,963.77	-18.22	-31.41	36.30	0.29
8,062.00	0.18	26.62	8,057.77	-17.86	-31.12	35.87	0.23
8,156.00	0.71	41.92	8,151.77	-17.29	-30.67	35.19	0.57
8,251.00	1.02	35.66	8,246.76	-16.17	-29.78	33.85	0.34
8,345.00	0.44	81.27	8,340.75	-15.44	-28.94	32.75	0.83
8,439.00	0.78	73.79	8,434.74	-15.20	-27.97	31.80	0.37
8,533.00	1.08	88.40	8,528.73	-15.00	-26.47	30.41	0.40
8,628.00	1.08	104.68	8,623.71	-15.20	-24.71	29.01	0.32
8,722.00	1.04	142.55	8,717.70	-16.10	-23.33	28.30	0.73
8,816.00	1.33	133.88	8,811.68	-17.54	-22.02	27.92	0.36
8,911.00	1.13	141.83	8,906.66	-19.04	-20.65	27.52	0.28
9,005.00	0.56	255.70	9,000.65	-19.88	-20.52	27.85	1.54
9,099.00	0.42	195.42	9,094.65	-20.32	-21.06	28.54	0.54
9,194.00	0.59	346.25	9,189.65	-20.18	-21.27	28.65	1.03
9,288.00	0.79	351.18	9,283.64	-19.07	-21.48	28.26	0.22
9,383.00	0.89	6.86	9,378.63	-17.69	-21.50	27.55	0.26
9,477.00	1.20	333.08	9,472.62	-16.09	-21.85	27.03	0.72
9,571.00	1.19	326.58	9,566.59	-14.40	-22.84	26.99	0.14
9,645.00	0.23	234.70	9,640.59	-13.84	-23.38	27.17	1.65
9,744.00	1.22	163.70	9,739.58	-14.97	-23.25	27.64	1.18
9,838.00	0.59	84.33	9,833.57	-15.88	-22.49	27.46	1.33
9,932.00	1.12	76.81	9,927.56	-15.63	-21.11	26.15	0.58
10,027.00	0.98	87.28	10,022.55	-15.38	-19.39	24.55	0.25
10,122.00	0.83	94.96	10,117.53	-15.40	-17.90	23.28	0.20
10,216.00	0.03	63.86	10,117.53	-15.17	-16.64	22.09	0.46
10,311.00	0.79	79.58	10,211.52	-14.81	-15.64	21.05	0.35
10,311.00	0.50	1 9.50	10,300.52	-14.01	-10.04	21.05	0.33

RECEIVED: Aug. 04, 2014

Design Report for South Altamont 10-22-22 - Gyrodata Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
10,405.00	0.60	120.15	10,400.51	-14.98	-14.81	20.43	0.42
10,500.00	0.36	62.39	10,495.51	-15.09	-14.12	19.89	0.54
10,594.00	0.45	111.47	10,589.51	-15.09	-13.51	19.37	0.37
10,689.00	0.61	115.92	10,684.51	-15.45	-12.71	18.87	0.17
10,783.00	0.28	358.52	10,778.50	-15.44	-12.27	18.49	0.83
10,878.00	0.11	353.42	10,873.50	-15.11	-12.28	18.33	0.18
10,972.00	0.76	16.91	10,967.50	-14.43	-12.11	17.83	0.70
11,067.00	0.45	0.66	11,062.49	-13.45	-11.92	17.17	0.37
11,162.00	0.36	44.66	11,157.49	-12.87	-11.71	16.68	0.33
11,256.00	0.15	359.85	11,251.49	-12.53	-11.50	16.33	0.29
11,351.00	0.18	358.85	11,346.49	-12.26	-11.51	16.19	0.03
11,445.00	0.15	266.55	11,440.49	-12.12	-11.63	16.23	0.25
11,540.00	0.72	9.20	11,535.49	-11.54	-11.66	15.95	0.81
11,635.00	0.54	6.29	11,630.48	-10.50	-11.52	15.29	0.19
11,729.00	0.35	348.68	11,724.48	-9.78	-11.52	14.92	0.25
11,824.00	0.45	344.64	11,819.48	-9.14	-11.68	14.72	0.11
11,918.00	0.15	16.50	11,913.48	-8.66	-11.74	14.53	0.35
12,013.00	0.24	82.94	12,008.48	-8.52	-11.51	14.26	0.24
12,108.00	0.08	55.62	12,103.48	-8.46	-11.26	14.01	0.18
12,201.00	0.23	183.95	12,196.47	-8.61	-11.22	14.05	0.31
12,295.00	0.52	349.95	12,290.47	-8.38	-11.30	14.01	0.79
12,389.00	0.39	313.01	12,384.47	-7.74	-11.61	13.94	0.33
12,484.00	0.46	317.30	12,479.47	-7.24	-12.11	14.11	0.08
12,578.00	0.26	266.41	12,573.47	-6.97	-12.58	14.37	0.38
12,673.00	0.35	239.93	12,668.47	-7.13	-13.04	14.85	0.17
12,768.00	0.45	218.68	12,763.46	-7.57	-13.53	15.49	0.19
12,855.00	0.62	213.37	12,850.46	-8.23	-14.00	16.24	0.20
Final Sperry	MWD Survey						
12,900.00	0.62	213.37	12,895.46	-8.63	-14.27	16.68	0.00

Design Annotations

Measured	Vertical	Local Coor	dinates			
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment		
200.00	200.00	0.12	-0.04	Surveys from 200.00ft to 2249.00ft are Gyrodata Gyro Surveys		
2,249.00	2,247.23	-36.43	-42.83	Tie-On to Gyrodata Gyro Survey		
2,406.00	2,403.53	-45.29	-54.76	First Sperry MWD Survey		
12,855.00	12,850.46	-8.23	-14.00	Final Sperry MWD Survey		
12,900.00	12,895.46	-8.63	-14.27	Survey Projection to TD		

Vertical Section Information

	Angle			Origin	Orig	Start	
	Туре	Target	Azimuth (°)	Туре	+N/_S (ft)	+E/-W (ft)	TVD (ft)
TD		No Target (Freehand)	238.82	Slot	0.00	0.00	0.00

Division of Oil, Gas and Mining

Operator Change/Name Change Worksheet-for State use only

Effective Date:

12/1/2015

FORMER OPERATOR:	NEW OPERATOR:	
BILL BARRETT CORPORATION	AXIA ENERGY II, LLC	
1099 18TH STREET	1430 LARIMER STREET, SUITE 400	
DENVER CO 80202	DENVER CO 80202	
CA Number(s): N/A	Unit(s): N/A	

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 12/3/2015

2. Sundry or legal documentation was received from the **NEW** operator on: 12/3/2015

3. New operator Division of Corporations Business Number: 9410352-0161

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 12/3/2015

2. Receipt of Acceptance of Drilling Procedures for APD on: 12/3/2015

3. Reports current for Production/Disposition & Sundries: 12/7/2015

4. OPS/SI/TA well(s) reviewed for full cost bonding:

N/A

5. UIC5 on all disposal/injection/storage well(s) approved on: N/A

6. Surface Facility(s) included in operator change: None

7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A
2. Indian well(s) covered by Bond Number: N/A

2. Indian wen(s) covered by Bond Number.

3.State/fee well(s) covered by Bond Number(s): LPM9046682a

DATA ENTRY:

1. Well(s) update in the OGIS on:
2. Entity Number(s) updated in OGIS on:
3. Unit(s) operator number update in OGIS on:
4. Surface Facilities update in OGIS on:
5. State/Fee well(s) attached to bond(s) in RBDMS on:
6. Surface Facilities update in RBDMS on:
N/A

N/A

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division

of their responsibility to notify all interest owners of this change on: 12/7/2015

COMMENTS:

From: Bill Barrett Corporation To: Axia Energy II, LLC Effective: December 1. 2015

Well Name	Section	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SA 12-23-22 SWD	23	020S	020W	4301351841		Fee	Fee	WD	APD
SA 5-27-22	27	020S	020W	4301351856		Fee	Fee	OW	APD
SA 15-27D-21	27	020S	010W	4301351987		Fee	Fee	OW	APD
SA 16-27D-23	27	020S	030W	4301352022		Fee	Fee	OW	APD
SA 5-29D-21	29	020S	010W	4301352027		Fee	Fee	OW	APD
SA 5-32D-22	32	020S	020W	4301352119		Fee	Fee	OW	APD
SA 14-26D-22	26	020S	020W	4301352183		Fee	Fee	OW	APD
SA 7-33-22	33	020S	020W	4301352204		Fee	Fee	OW	APD
SA 16-33-23	33	020S	030W	4301352323		Fee	Fee	OW	APD
SA 13-19D-21	19	020S	010W	4301352563		Fee	Fee	OW	APD
12-23-22 South Altamont	23	020S	020W	4301353292		Fee	Fee	OW	APD
SA 1-35D-21	35	020S	010W	4304754056		Fee	Fee	OW	APD
WINDY RIDGE ST 34-7	34	020S	010W	4301333982	17005	State	Fee	OW	P
KILLIAN 34-12	34	020S	020W	4301350407	19203	Fee	Fee	OW	P
10-22-22 SOUTH ALTAMONT	22	020S	020W	4301351053	18560	Fee	Fee	OW	P
13-22-22 SOUTH ALTAMONT	22	020S	020W	4301351160	18587	Fee	Fee	OW	P
3-30-21 SOUTH ALTAMONT	30	020S	010W	4301351586	19145	Fee	Fee	OW	P
SA 16-25-23	25	020S	030W	4301352028	19175	Fee	Fee	OW	P
WINDY RIDGE-LIVSEY 25-15	25	020S	010W	4304740605	17441	Fee	Fee	OW	P
WINDY RIDGE-COOK 25-5	25	020S	010W	4304751225	18749	Fee	Fee	OW	P

1 12/8/2015

STATE OF UTAH

his space for State use only)	ALLUACIO		DEC 0 3 2015	
SIGNATURE 7	ADDDOVED	DATE	RECEIVED	
NAME (PLEASE PRINT) Adam Say	ers	TITLE President	_	
Senior Vice President - EH&S, Government and Regulatory		Vice President - Drilling & Regulatory		
Dru Zarth	SIGNATURE	Tes tions	SIGNATURE	
Duane Zavadi	(NAME (PLEASE PRINT)	JESS PEONIO	NAME (PLEASE PRINT)	
BILL BARRETT CORPOR	ATION	AXIA ENERGY II, LLC	;	
Axia Energy II, LLC 1430 Larimer Street, Suite Denver, CO 80202 720-746-5212 (STATE/FEE BOND # LPI				
AXIA ENERGY II, LLC IS LIST HAVE BEEN SOLD	SUBMITTING THIS SUNDRY AS	ILL BILL BARRETT CORPORAT	LLS LISTED ON THE ATTACHED	
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION		
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:	
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME CHANGE WELL STATUS	PLUG BACK PRODUCTION (START/RESUME)	WATER DISPOSAL WATER SHUT-OFF	
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE	
12/1/2015	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR	
(Submit in Duplicate) Approximate date work will start:	ALTER CASING CASING REPAIR	FRACTURE TREAT NEW CONSTRUCTION	SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION	
TYPE OF SUBMISSION	NOT NATE BOXES TO INDICAT	TYPE OF ACTION	KI, OR OTHER DATA	
11 CHECK ADD	ROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPO		
QTR/QTR, SECTION, TOWNSHIP, RAN	IGE, MERIDIAN:		STATE: UTAH	
FOOTAGES AT SURFACE: (See a	ttached well list)		COUNTY:	
1430 Larimer Street, Suite 40 CIT	Y Denver STATE CO ZIP	80202 (720) 746-5212		
Axia Energy II, LLC 3. ADDRESS OF OPERATOR:		PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:	
2. NAME OF OPERATOR:	9. API NUMBER:			
1. TYPE OF WELL OIL WELL	8. WELL NAME and NUMBER: (see attached well list)			
Do not use this form for proposals to drill r drill horizontal li	7. UNIT or CA AGREEMENT NAME:			
SUNDRY	NOTICES AND REPORTS	S ON WELLS	N/A	
			(see attached well list) 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	5. LEASE DESIGNATION AND SERIAL NUMBER:			

DEC 0 8 2015

DIV. OF OIL, GAS & MINIMO

UDOGM CHANGE OF OPERATOR WELL LIST

API Well Number	Well Name	Status	Qtr/Qtr	Section	Township-Range)
43-013-51841	SA 12-23-22 SWD	APD	NWSW	23	2S-2W
43-013-51856	SA 5-27-22	APD	SWNW	27	2S-2W
43-013-51987	SA 15-27D-21	APD	NWSE	27	2S-1W
43-013-52022	SA 16-27D-23	APD	SESE	27	2S-3W
43-013-52027	SA 5-29D-21	APD	SENW	29	2S-1W
43-013-52119	SA 5-32D-22	APD	SWNW	32	2S-2W
43-013-52183	SA 14-26D-22	APD	SESW	26	2S-2W
43-013-52204	SA 7-33-22	APD	SWNE	33	2S-2W
43-013-52323	SA 16-33-23	APD	SESE	33	2S-3W
43-013-52563	SA 13-19D-21	APD	SWSW	19	2S-1W
43-047-54056	SA 1-35D-21	APD	NENE	35	2S-1W
43-013-53292	12-23-22 SOUTH ALTAMONT	APD	NWSW	23	2S-2W
43-013-53311	13-30-21 SA	New Permit (Not yet approved or drilled)	SWSW	30	2S-1W
43-013-53310	10-32-22 SA	New Permit (Not yet approved or drilled)	NWSE	32	2S-2W
43-047-40605	WINDY RIDGE-LIVSEY 25-15	PR	SWSE	25	2S-1W
43-013-33982	WINDY RIDGE STATE 34-7	PR	SWNE	34	2S-1W
43-013-51053	10-22-22 SOUTH ALTAMONT	PR	NWSE	22	2S-2W
43-013-51160	13-22-22 SOUTH ALTAMONT	PR	SWSW	22	25-2W
43-047-51225	WINDY RIDGE-COOK 25-5	PR	SWNW	25	2S-1W
43-013-50407	KILLIAN 34-12	PR	NWSW	34	2S-2W
43-013-52028	SA 16-25-23	PR	SESE	25	2S-3W
43-013-51586	3-30-21 SOUTH ALTAMONT	PR	NENW	30	2S-1W

Baura

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

weil	name:	(See attached li	ist)				
API	number:						
Loca	ition:	Qtr-Qtr:	Section:	Township:	Range:		
Com	pany that filed original application:	Bill Barrett Corp	oration				
Date	original permit was issued:						
Com	pany that permit was issued to:	Bill Barrett Cor	poration				
Check		Des	ired Action:				
one							at at
√	Transfer pending (unapproved) App	olication for Pe	ermit to Drill to ne	ew operator	A TO COMMON TO THE PROPERTY OF THE PARTY OF		V 200
N.	The undersigned as owner with legal is submitted in the pending Application for owner of the application accepts and a	or Permit to Dril	ll, remains valid ar	nd does not require rev	vision. The n		
	Transfer approved Application for F	Permit to Drill t	o new operator				
	The undersigned as owner with legal in information as submitted in the previous revision.						
Folio	wing is a checklist of some items rel	ated to the ap	plication, which	should be verified.		Yes	No
If loca	ated on private land, has the ownership	changed?				√	
	If so, has the surface agreement been	updated?			i		1
Have	any wells been drilled in the vicinity of	the proposed w	ell which would af	fect the spacing or siti	ng		1
	rements for this location?						Ľ
	there been any unit or other agreemen used well?	ts put in place t	hat could affect th	e permitting or operati	ion of this		✓
Have	there been any changes to the access	route including	ownership or righ	t-of-way, which could	affect the		1
	sed location?		· · ·				Ľ
Has t	he approved source of water for drilling	changed?		. 			1
	there been any physical changes to the from what was discussed at the onsite		on or access route	which will require a c	hange in		1
	nding still in place, which covers this pro		ond No. LPM9046	682a		✓	-
						<u> </u>	
shoul	lesired or necessary changes to either a d be filed on a Sundry Notice, Form 9, o ssary supporting information as required	or amended App		t to Drill, Form 3, as a		ith	red,
Name	e (please print) Adam Sayers		Title President		DEC 0 3 20	115	
Signa	" ////		Date 12/01/2015				
Oigilia			Date 120112010	חות	OF OIL, GAS	HW 2	4HAG
Renre	esenting (comparty name) Axia Energy II,	LLC		D1V.	Q;		

Permit to Drill.

APPROVED PERMITS TO TRANSFER

API Well Number	Well Name	Qtr/Qtr	Section	Township-Range)
43-013-51841-00-00	SA 12-23-22 SWD	NWSW	23	2S-2W
43-013-51856-00-00	SA 5-27-22	SWNW	27	2S-2W
43-013-51987-00-00	SA 15-27D-21	NWSE	27	2S-1W
43-013-52022-00-00	SA 16-27D-23	SESE	27	2S-3W
43-013-52027-00-00	SA 5-29D-21	SENW	29	2S-1W
43-013-52119-00-00	SA 5-32D-22	SWNW	32	2S-2W
43-013-52183-00-00	SA 14-26D-22	SESW	26	2S-2W
43-013-52204-00-00	SA 7-33-22	SWNE	33	2S-2W
43-013-52323-00-00	SA 16-33-23	SESE	33	2S-3W
43-013-52563-00-00	SA 13-19D-21	SWSW	19	2S-1W
43-047-54056-00-00	SA 1-35D-21	NENE	35	2S-1W
43-013-53292-00-00	12-23-22 SOUTH ALTAMONT	NWSW	23	2S-2W